



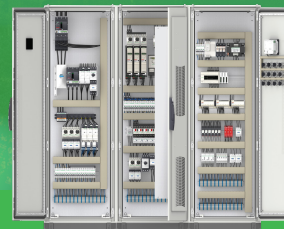
Panel Builder

Catalog 2025

PowerLogic™ Series Energy and Power Meters catalog for Panel Builders



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PowerLogic™ Energy and Power Meters Catalog for Panel Builders

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See your Schneider Electric representative for complete ordering information.



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Clicking on a **Commercial Reference Number** or scanning the product's **QR Code** links you to further product information on www.se.com

Why Panel Builders Choose Schneider Electric?



Schneider Electric is the global specialist in energy management and as such it has the most complete power motoring product line, going from simple indicators (analog meters) and CTs, to world class accurate energy meters and powerful compact power meters. These proven products come with multiple options to satisfy any requirement.

Schneider Electric products are safe and reliable. We comply with the most stringent standards, including IEC, MID, UL, etc., and we thoroughly test all products with third-party laboratories. This gives our partners the peace of mind and the confidence that they are maintaining a good reputation while delivering the best value in equipment and service to their customers.

Our products are simple to install, configure, and use. This saves our partners time and money and lets them deliver the best solutions in a timely and cost-effective manner.

Whatever the size or type of application, the PowerLogic™ product line is an integral part of smart panels.

Panorama of the PowerLogic™ range

Use this panorama to select the most efficient products for your application needs

Current Transformers



Name	5 A Current Transformers	LVCT - 0.333 V	Rogowski Coils
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	METSECT5CCXXX	METSECT5DXXXX	METSECTLVXXXXXX	METSECTRXXXXXX
Type	Solid Core	Solid Core	Solid Core	Rogowski Coils
Primary Current	40 A to 250 A	500 A to 4000 A	50 A to 400 A	50 A to 5000 A
Secondary Output	5 A	5 A	0.333 V	"58.3 mV/kA @ 50 Hz 70 mV/kA @ 60 Hz"
Accuracy Class	Class 0.5 to Class 3	Class 0.5 to Class 1	Class 1	Class 1 A1
Profile Suitable	Cable	Bar	Cable	Bar
Operating Temperature	-25 to 60 °C	-25 to 60 °C	-40 to 85 °C	-35 to 60 °C



	METSECT5MXXXX	METSECT5VVXXX	METSECTLVXXXXX	
Type	Solid Core	Solid Core	Split Core	
Primary Current	150 A to 800 A	5000 A to 6000 A	50 A to 2400 A	
Secondary Output	5 A	5 A	0.333 V	
Accuracy Class	Class 0.5 to Class 1	Class 0.5	Class 1	
Profile Suitable	Bar/Cable	Bar	Bar	
Operating Temperature	-25 to 60 °C	-25 to +50 °C	-15 to 60 °C	



	METSECT5GXXXX	METSECT5HXXXX	
Type	Split Core	Split Core	
Primary Current	100 A to 4000 A	100 A to 1000 A	
Secondary Output	5 A	5 A	
Accuracy Class	Class 0.5 to Class 3	Class 0.5 to Class 1	
Profile Suitable	Bar	Cable	
Operating Temperature	-5 to 40 °C	-5 to 50 °C	

Panorama of the PowerLogic™ range (cont'd)

Basic energy metering



Name	iEM2xxx Range iEM2000, iEM2400	EM3000 Series	iEM3000 Series
Function	kilowatt-hour meter IEC 62052-31:2015 BS/EN/IEC 62053-21 BS/EN/IEC 62053-23 EN 50470-1:2006 EN 50470-3:2006 IEC 61557-12:2018	kilowatt-hour meters power and energy meters	kilowatt-hour meters power and energy meters metering & sub-metering IEC 62052-31:2015 BS/EN/IEC 62053-21:2020 ed 2 BS/EN/IEC 62053-22:2020 ed 2 BS/EN/IEC 62053-23:2020 ed 2 EN 50470-1:2006 EN 50470-3:2006 IEC 61557-12:2018

Applications

Panel instrumentation	E (in all range) I, U, F, P, Q, S, PF (in selected ranges)	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)
Energy efficiency and cost			
Sub-billing & cost allocation			
Demand & load management			
Billing analysis			
Power availability & reliability			
Compliance monitoring			
Dip/swell, transient			
Harmonics			
Revenue metering			
Revenue meter			

Characteristics

Measurement accuracy	Class 1 (Wh)/ Class 2 (VARh)	Class 0.5/ 0.5s/ Class 1 (Wh) Class 2 (VARh)	Class 0.5S / Class 1 (Wh) Class 2 (VARh)
Installation	DIN rail 1, 2 x 18 mm modules	DIN rail	DIN rail 5, 7 x 18 mm modules
Voltage measurement	up to 276 V (Ph-N) AC direct	90 - 347 V L-N- EM3570 156 - 600 V L-L- EM3570 100-277 V L-N (Others) 173- 480 V L-L (Others)	100 - 277 V L-N, 173 - 480 V L-L up to 1MV AC (ext VT)
Current measurement	40 to 100 A direct	45 A Direct- EM3100 63 A Direct - EM3200 100 A Direct - EM3300 125 A Direct - EM3400 LVCT/Rog - EM3570 External CT (1/5A) - EM3700	external CT (iEM3200), external LVCT (iEM3400/3500) direct 63 A (iEM3100), direct 125 A (iEM3300)
Communication ports	RS-485, M-Bus in selected references	RS485, Dual Ethernet Port (EM3570)	RS-485, M-Bus, BACnet, LonWorks in selected references
Inputs / Outputs	1/1 (in selected)	Upto 2 Inputs and 1 Output	up to 2 Inputs and 1 Output
Memory capacity			
	page 47	page 53	page 59

Panorama of the PowerLogic™ range (cont'd)

Basic energy metering



Name	PM3000 Series	PowerTag Energy Series
Function	metering & sub-metering Class 0.5S IEC 62053-22 Class 1 IEC 62053-21 Class 2 IEC 62053-23	wireless power & energy meter

Applications

Panel instrumentation

Panel instrumentation	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Depending on reference; Power demand depending on gateway)
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Energy efficiency and cost

Sub-billing & cost allocation		cost allocation only
Demand & load management		
Billing analysis		

Power availability & reliability

Compliance monitoring		
Dip/swell, transient		
Harmonics		

Revenue metering

Revenue meter		
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Characteristics

Measurement accuracy	Class 0.5	IEC 61557-12 PMD/DD Class 1 (active energy)
Installation	DIN rail	on product or on cables depending on the reference
Voltage measurement	50 V to 330 V AC (Ph-N) 80 V to 570 V AC (Ph-Ph) up to 1M V AC (ext VT)	up to 277 V AC (Ph-N) / 480 V AC (Ph-Ph) depending on the reference
Current measurement	external CT	63 to 2000 A
Communication ports	1	Wireless
Inputs / Outputs	2 I/O	
Memory capacity		

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Panorama of the PowerLogic™ range (cont'd)

Wireless products



Basic multi-function metering



Name	PowerTag Control	HeatTag Smart Sensor	PM5000 Series	PM5350 Series
Function	Circuit monitoring & control IEC 60364-8-1 EN 17267 ISO 50010	Early detection of overheating wire connections or overheating cables	metering & sub-metering IEC 62052-31:2015 BS/EN/IEC 62053-22:2020 ed 2 BS/EN/IEC 62053-23:2020 ed 2 EN 50470-1:2006 EN 50470-3:2006 IEC 61557-12:2018	Class 0.5S IEC 62053-22 Class 2 IEC 62053-23 Class 1 IEC 61557-12

Applications

Panel instrumentation

Panel instrumentation	Analysis of gas and micro-particles, Temperature, Humidity	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)
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Energy efficiency and cost

Sub-billing & cost allocation			
Demand & load management			
Billing analysis			

Power availability & reliability

Compliance monitoring			
Dip/swell, transient			
Harmonics			
Residual current M			

Revenue metering

Revenue meter			
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Characteristics

Measurement accuracy		Temperature ±1.1 °C Humidity ± 9 RH%	Class 0.5S	Class 0.5
Installation	DIN rail	DIN rail 6 x 18 mm modules	Flush mount 96 mm x 96 mm or DIN rail (PM5563)	Flush mount 96 mm x 96 mm
Voltage measurement			20 V to 400 V AC L-N 35 V to 690 V AC L-L	20 V to 300 V L-N 35 V to 520 V L-L
Current measurement			external CT	external CT
Communication ports	Wireless		RS-485, Ethernet, BACnet, Ethernet IP	RS-485
Inputs / Outputs	2 I/O		up to 4 inputs/ 2 outputs	up to 4 inputs/ 2 outputs
Memory capacity			Available	

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Panorama of the PowerLogic™ range (cont'd)

Insulation monitoring Devices



EcoStruxure™ Panel Server



Name	Vigilohm™ Insulation monitoring devices	EcoStruxure™ Panel Server
Function	Insulation monitoring for IT / Ungrounded networks	IoT gateway for intelligent power network

Features

RS-485 / Ethernet gateway	RS-485	Supports IEEE 802.15.4 and Modbus devices
Devices supported	Insulation Monitors: IM9, IM9-OL, IM10, IM20 IM10-H, IM20-H, IM400 series IM400THR Insulation Fault Locators: IFL 12, IFL 12C, IFL 12MC, IFL 12H Accessories: Including voltage adaptors, cardews, toroids	Wired devices communicating through Modbus-SL, Modbus TCP/IP, or digital inputs: Circuit breakers and switch-disconnectors, Protection relays, Power meters, Energy meters, Pulse meters, IO modules, Gateways Wireless devices: PowerTag Energy sensors, Environmental sensors, Acti9 Active, HeatTag sensors, PowerTag Control modules, Wireless indication auxiliaries for ComPacT NSX and ComPacT NSXm, circuit breakers
Web server with standard HTML pages		
Web server with custom HTML pages		
Real time data	Available on product supervision e.g.PME, Com'X 510	Available on web server embedded in Panel Server
Historical data	Available on product supervision e.g.PME, Com'X 510	Available on web server embedded in Panel Server (Advanced Panel Server only)
Automatic notification	Available in supervision PME	Available on embedded web server (Advanced Panel Server only), edge control system & cloud-hosted application
Alarm and event logs	Available in supervision PME	Available on embedded web server (Advanced Panel Server only), edge control system & cloud-hosted application
Waveform display		
Custom animated graphics		
Manual/automatic reports		

Characteristics

Ethernet ports Modbus TCP/IP protocol	An IT earthing system -also called ungrounded system- allows the network to operate even in the presence of an insulation fault, without endangering people or property. Required as part of the IT network, an Insulation Monitoring Device (IMD) detects the insulation fault and locates it so it can be repaired.	Two Ethernet 10Base-T/100Base-T port Wi-Fi Bluetooth communication for commissioning Modbus RS485 serial communication IEEE 802.15.4 wireless communication Modbus TCP/IP server and client Support of HTTPS, NTP, SNTP, DHCP client and server with proxy management Modbus RS485 to Modbus/TCP Gateway Wireless devices concentrator to Modbus/TCP Two digital inputs (24VDC version only) Commissioning through EcoStruxure™ Power Commission or through Embedded Web-Pages
RS-485 (2-wire / 4-wire) ports, Modbus protocol		
Number of devices connected directly		
RS-232 configuration ports		
Miscellaneous		
Installation		

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Panorama of the PowerLogic™ range (cont'd)

I/O Smartlink



Name	I/O Smartlink
Function	IO Smartlink is an Input / Output device with communication enabled. Device is able to detect the Circuit Breaker status, Protection Trip status and monitor the Operation cycle of the load. Device is capable to measure the consumption from WAGES pulse meters.

Input Characteristics

Number of channels	11 of 2-input channels
Type of input	Current collector Type 1 IEC 61131-2
	500 m
Rated voltage	24 Vdc
Voltage limits	24 Vdc ± 20 %
Rated current	2.5 mA
Maximum current	5 mA

Output Characteristics

Number of output channels	11
Type of output	24 Vdc 0.1 A current source
Maximum cable length	500 m
Rated voltage	24 Vdc
Maximum current	100 mA
Filtering time	2 ms (In state 1) 2 ms (In state 0)
Voltage drop (voltage in state 1)	1 Vmax

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PowerLogic™ Current Transformers (CT)

Technical Datasheet

5A Solid and Split core

Schneider Electric is the global specialist in energy management with the most complete power monitoring product line. Current Transformers are essential components designed to be used with Schneider Electric's extensive power monitoring product portfolio. From simple energy meters to world class power quality meters, these proven products satisfy any requirement.

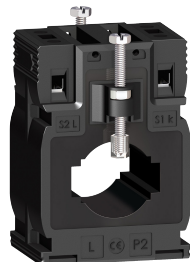
Solid core CTs

PB112446



METSECT5CCxxx

PB112460



METSECT5MAxxx

PB112456



METSECT5DCxxx

PB112467



METSECT5VVxxx

Split core CTs

PB119872



METSECT5HAxxx

PB119862



METSECT5GAxxx

PB119868



METSECT5GJxxx

PB119876



METSECT5HJxxx



Solid Core CTs

These current transformers from Schneider Electric are a comprehensive offer, ideally suited throughout the entire low voltage network, from 40 A to 6000 A. They deliver secondary current (0-5 A) proportional to the current measured at the primary. They can be used in combination with measurement devices (switchboard instrumentation, Ammeters, kilowatt-hour meters, power-monitoring units, control relays etc.). CTs with low VA burden allows them to be used in combination of measurement equipments.

The solution for

- Perfect for new and existing installations and expansion projects in a variety of markets:
- Commercial buildings
- Industrial facilities
- Medical facilities
- Data centers
- Education
- Oil & Gas

Benefits

- Safety: sealable insulating cover
- Installation: on symmetrical DIN rail, on mounting plate, on busbar
- Well adapted CT as the accuracy class is better than rated accuracy
- Multiple secondary terminal options for different mounting profile
- Current Transformers for coaxial cable
- Current Transformers for vertical or horizontal bar
- Current Transformers for cable or bar profile
- Compact size suitable for different sizes of conductors
- Tropicalized rating for harsh environmental condition
- Adaptable for different conductor profile and primary current intensity

Features

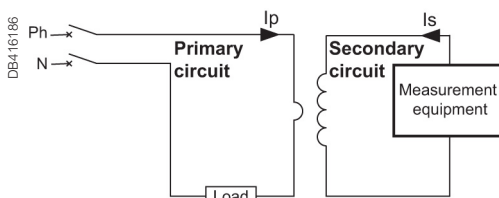
- A broad selection of ratings: from 40 A to 6000 A I_p with 120% max. range
- Fully compatible with Schneider Electric's complete portfolio of industry leading metering products as well as Third Party measurement devices.
- Safety through sealable insulating cover
- Compliance with IEC measurement standards with accuracy class ranges from Class 0.5 to Class 3
- Higher safety factor during installation and for facility
- For indoor use

Conformity of standards

- BS / EN 61869-1:2009
- BS / EN 61869-2:2012
- BS / EN 63000:2018
- VDE 0414
- Green Premium Ecolabel
- CE / UKCA certified
- EAC, Metrology

$I_p/5$ A ratio

When the primary is energized, the measurement equipment nearly acts as a short circuit which keeps the secondary voltage very low. This voltage will increase significantly if the short circuit is removed. Hence, always keep the secondary circuit connected to low impedance path or current signal terminals of the measuring instrument.

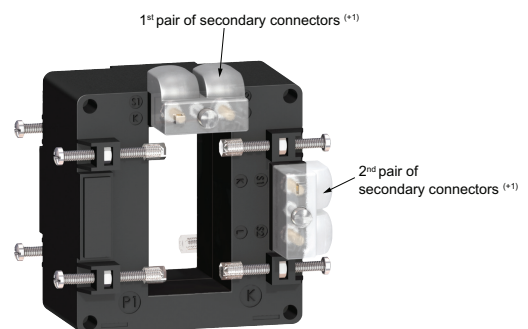


Application diagram of a CT.

I_p - Primary Current

I_s - Secondary Current

CTs with multi secondary output



(+1) Two pairs of secondary connectors are provided (parallel internal wiring - only one secondary winding) for easier cable access. 1 lateral + 1 on one extremity.

Hence, only one pair of secondary connectors must be used at a time.

Solid Core CTs

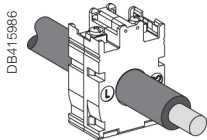
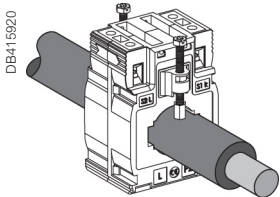
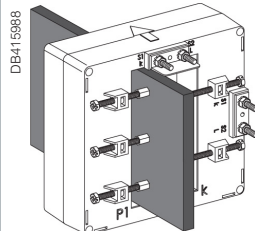
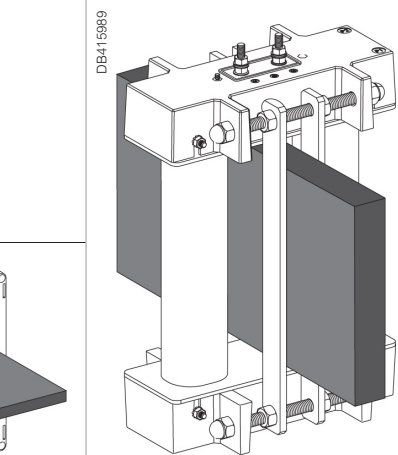

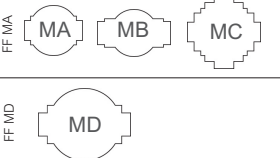
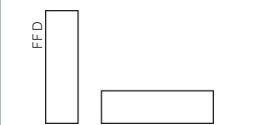
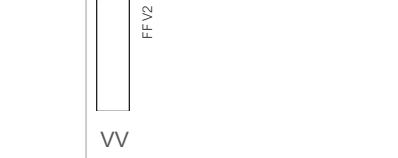
CT selection - conductor rating aspects

- The choice depends on the conductor profile and the maximum intensity of the primary circuit.
- CTs are available in different form factors and sizes to meet varied applications

Primary current can be measured in two ways:

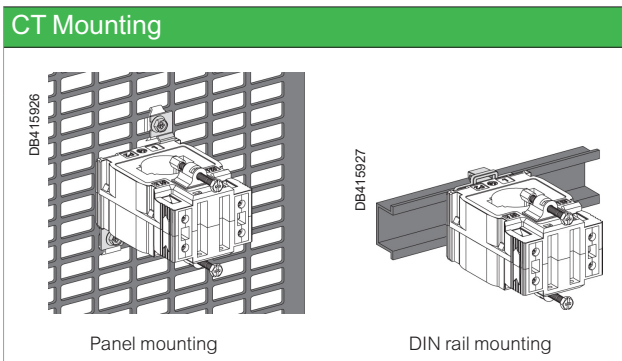
- CT with let-through primary
- CT with connection of primary by screws and nuts

CT with let-through primary

Conductor type	Cable	Mixed, bars or cables	Vertical or horizontal bars	Vertical bars
Suggested Current Transformer and mounting	 <p>DB415986</p>	 <p>DB415920</p>	 <p>DB415988</p>	 <p>DB415989</p>
Ratings (A)	40 to 250	150 to 800	400 to 4000	5000 to 6000
CT internal	Type C	Type M	Type D ⁽⁺¹⁾	Type V
	 <p>FFC</p>	 <p>FF MA, MB, MC, MD</p>	 <p>FFD</p>	 <p>FF V2, VV</p>

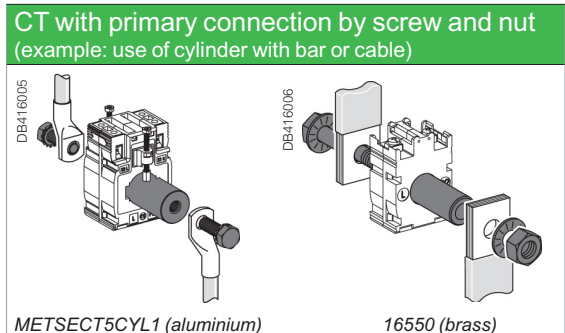
⁽⁺¹⁾ Two pairs of secondary connectors are provided (parallel internal wiring - only one secondary winding) for easier cable access. 1 lateral + 1 on one extremity. Hence, only one pair of secondary connectors must be used at a time.

Mounting method



Specific mounting: use of cylinder

A cylindrical metallic spacer ensures a proper CT positioning when the conductor or the CT cannot be positioned perpendicular. Secured by bolt + nut.



NOTE: This document is not intended to be used as an installation guide.

CT selection criterion - Electrical aspect of I primary (Ip)/5 A

- We recommend that you choose the ratio immediately higher than the maximum load current.
Example: Maximum load current = 1103 A; ratio chosen = 1250/5 (Ip = 1250 or Inom = 1250).
- For lower ratings: From 40/5 to 75/5 and for an application with digital devices, we recommend that you choose the next higher rating of Ip, for example 50/5 for 40/5, 60/5 for 50/5, and so on.
- Specific case of the motor starter: to measure motor starter current, you must choose a CT with primary current Ip = Id/2 (Id = motor starting current).

Validation of measurement solution according to accuracy class

It consists in controlling the right adaptation of the CT on the accuracy class aspect. The accuracy class is specified in the project. The total dissipated power of the measurement circuit (meter + cables) should not be superior to the specified limit of the CT. This limit is for different standard classes. If necessary, the choice of the cable section, the CT or meter should be modified to fit the requirement.

Copper cable cross-section (mm ²)	Approximate Power burden at 20 °C (VA)	Schneider Electric make power monitoring device	Maximum VA burden at Nominal current (secondary) input (VA)
1	1	Analog Ammeter, form factor 72 x 72 mm / 96 x 96 mm	1.1
1.5	0.685	Digital ammeter	0.3
2.5	0.41	PM8000	0.15
4	0.254	PM3000 / iEM3200	0.3
6	0.169	PM5000 / PM2000	0.15
10	0.0975	PM / EM1000H / EM64xxH	0.15
16	0.062		

For each temperature variation per 10 °C bracket, the power drawn up by the cables increases by 4 %.

Application example

Project specification: 200 A, in Ø27 mm cable, accuracy class 1.
Our choice is [METSECT5MA020](#).

For this CT selected on the chart (next page), the maximum VA burden is 7 VA (for "Accuracy class 1" which is specified in the project).

Internal profile type	Cables (mm)	Bars (mm)	Rating Ip/5 A (A)	Commercial reference number	Accuracy class		
					0.5	1	3
					Max. power (VA)		
	Ø27	10 x 32 15 x 25	150	METSECT5MA015	3	4	-
			200	METSECT5MA020	4	7	-
			250	METSECT5MA025	6	8	-
			300	METSECT5MA030	8	10	-
			400	METSECT5MA040	10	12	-

Control of the conformity of the measurement chain:

- PM3000 multi-meter: 0.3 VA.
 - 4 m length of 2.5 mm² cable: 0.41 x 4 = 1.64 VA.
- Calculated burden: 0.3 + 1.64 = 1.94 VA (< 7 VA)

Conclusion: this CT is well adapted as the accuracy class will be even better than 1.

Typical limits of current error and phase displacement error for measuring current transformers (classes from 0.1 to 1)

Accuracy Class	± Percentage current (ratio) error at percentage of rated current shown below				± Phase displacement at percentage of rated current as shown below							
					Minutes				Centiradians			
	5	20	100	120	5	20	100	120	5	20	100	120
0.1	0.4	0.2	0.1	0.1	15	8	5	5	0.45	0.24	0.15	0.15
0.2	0.75	0.35	0.2	0.2	30	15	10	10	0.9	0.45	0.3	0.3
0.5	1.5	0.75	0.5	0.5	90	45	30	30	2.7	1.35	0.9	0.9
1.0	3.0	1.5	1.0	1.0	180	90	60	60	5.4	2.7	1.8	1.8

Solid Core CTs

Type C



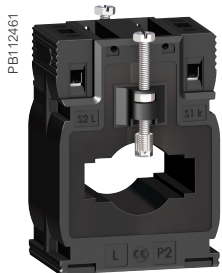
METSECT5CCxxx

Type V

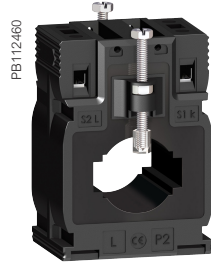


METSECT5VVxxx

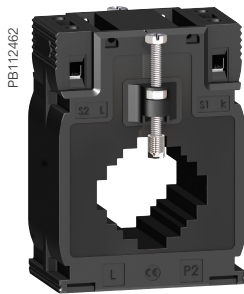
Type M



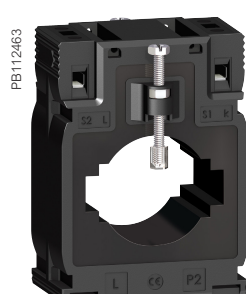
METSECT5MBxxx



METSECT5MAxxx



METSECT5MCxxx

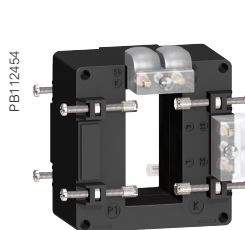


METSECT5MDxxx

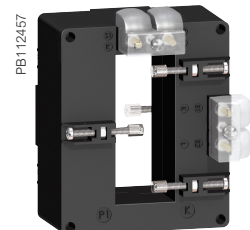
General characteristics

Secondary current Is (A)	5 A (S1- S2 terminals, multiple secondary terminal options for different mounting profile)
Maximum voltage rating Ue (V)	720 V
Dielectric strength test	3 kV, 50 Hz for one minute
Frequency (Hz)	50/60 Hz nominal (47 - 63 Hz)
Instrument security/ safety factor (FS/sf)	40 to 4000 A: FS ≤ 5 5000 to 6000 A: FS ≤ 10
Rated short time thermal current (I _{th})	60 times the I _p current for 1 s (max 60 kA)
Rated dynamic current (I _{dyn})	2.5 I _{th}
Degree of protection	IP20
Operating temperature	Tropicalised range: -25 to 60 °C (for I _p upto 1000 A), -25 to 50 °C (for I _p 1250 A up to 6000A) Relative humidity - 5 % to 95 %
Storage temperature	-40°C to +85°C
Compliance with standards	BS / EN 61869-1:2009, BS / EN 61869-2:2012, BS / EN 63000:2018 VDE 0414
Secondary connection (as per model)	by terminals for lug or by tunnel terminals or by screws
Pollution degree	2
Installation category	III
Insulation class	B
Altitude	≤ 3000 m (9843 ft)

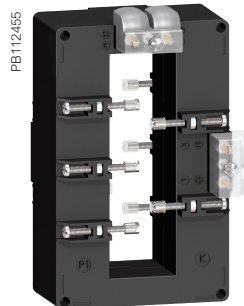
Type D



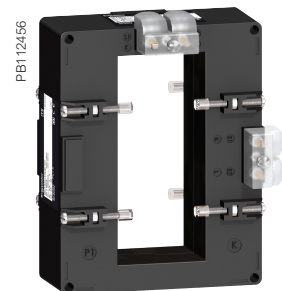
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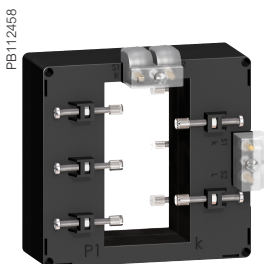
METSECT5DDxxx



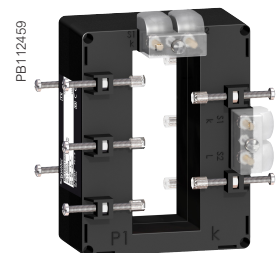
METSECT5DBxxx



METSECT5DCxxx



METSECT5DExxx



METSECT5DHxxx

Solid Core CTs

Representation of commercial reference numbers for CTs

MET SE CT X XX XXX

1 = 1 Amp
5 = 5 Amp
R = Rogowski

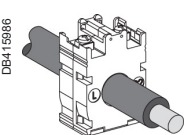

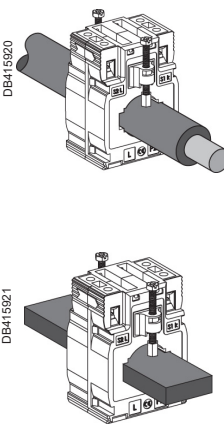




2 letters = Form Factor

Last 3 digits = Primary rating/10
(Rounded off to next digit)

Examples:

<p>Solid core</p> <p>METSECT5CC008</p> <p>CT - Current transformer 5 - 5 A CT secondary CC - Form factor suitable for Coaxial cable (round) only 008 - 75 A primary rating, divide by 10</p>	<p>Split core</p> <p>METSECT5GA020</p> <p>CT - Current transformer 5 - 5 A CT secondary GA - Form factor suitable for bus bars of max. size 23 x 33 mm 020 - 200 A primary rating, divide by 10</p>	<p>Rogowski coil</p> <p>METSECTR30500</p> <p>CT - Current transformer R - Rogowski coil 30 - 300 mm coil length 500 - Primary current 5000 A, multiply by 10</p>
--	---	--

Commercial reference scheme

CT with let-through primary	CT internal type	Internal profile type and dimension in mm	Fastening mode	Ip/5 A rating (A) ^(*)	Accuracy class VA rating			CT Commercial reference	Accessories commercial reference			
					0.5	1	3		Cylinder	Sealable cover		
Type C - solid-core CT (cable profile)												
	CC	 FF CC Ø21	• Adapter for DIN rails • Mounting plate	40	-	-	1	METSECT5CC004	METSECT5CYL1	Included		
				50	-	1.25	1.5	METSECT5CC005				
				60	-	1.25	2	METSECT5CC006				
				75	-	1.5	2.5	METSECT5CC008				
				100	2	2.5	3.5	METSECT5CC010				
				125	2.5	3.5	4	METSECT5CC013				
				150	3	4	5	METSECT5CC015				
				200	4	5.5	6	METSECT5CC020				
250	5	6	7	METSECT5CC025								
Type M - solid-core CT (mixed: cable/bar profile)												
	MB	 FF MB Ø26 12 x 40 15 x 32	• Adapter for DIN rails • Mounting plate	250	3	4	-	METSECT5MB025	-	METSECT5COVER		
				300	4	6	-	METSECT5MB030				
				400	6	8	-	METSECT5MB040				
	MA	 FF MA Ø27 10 x 32 15 x 25		METSECT5CYL2	METSECT5COVER	150	3	5	-	METSECT5MA015		
						200	4	7	-	METSECT5MA020		
						250	6	8	-	METSECT5MA025		
						300	8	10	-	METSECT5MA030		
						400	10	12	-	METSECT5MA040		
	MC	 FF MC Ø32 10 x 40 20 x 32 25 x 25				-	METSECT5COVER	250	3	5	-	METSECT5MC025
								300	5	8	-	METSECT5MC030
				400	8			10	-	METSECT5MC040		
				500	10			12	-	METSECT5MC050		
	MD	 FF MD Ø40 10 x 50 20 x 40		-	METSECT5COVER	600	12	15	-	METSECT5MC060		
						800	10	12	-	METSECT5MC080		
						500	4	6	-	METSECT5MD050		
				600	6	8	-	METSECT5MD060				
		800	10	12	-	METSECT5MD080						

^(*) Maximum rated current (Imax) is 120% of the primary current (Ip).

Please contact your Schneider Electric representative for complete ordering information.

Solid Core CTs

Commercial reference scheme (contd.)

CT with let-through primary	CT internal type	Internal profile type and dimension in mm	Fastening mode	Ip/5 A rating (A) ⁽⁺¹⁾	Accuracy class VA rating			CT Commercial reference	Accessories commercial reference	
					0.5	1	3		Cylinder	Sealable cover
Type D ⁽⁺²⁾ - solid-core CT (vertical or horizontal bar - dual secondary terminals)										
	DA		Insulated locking screw	400	4	8	-	METSECT5DA040	-	Included
				500	8	10	-	METSECT5DA050		
				600	8	12	-	METSECT5DA060		
				800	12	15	-	METSECT5DA080		
				1000	15	20	-	METSECT5DA100		
				1250	15	20	-	METSECT5DA125 ⁽⁺³⁾		
	DB		Insulated locking screw	1000	6	10	-	METSECT5DB100	-	Included
				1250	8	12	-	METSECT5DB125 ⁽⁺³⁾		
				1500	10	15	-	METSECT5DB150 ⁽⁺³⁾		
				2000	15	20	-	METSECT5DB200 ⁽⁺³⁾		
				2500	20	25	-	METSECT5DB250 ⁽⁺³⁾		
	DC		Insulated locking screw	2000	25	30	-	METSECT5DC200 ⁽⁺³⁾	-	Included
				2500	30	50	-	METSECT5DC250 ⁽⁺³⁾		
				3000	30	50	-	METSECT5DC300 ⁽⁺³⁾		
				4000	30	50	-	METSECT5DC400 ⁽⁺³⁾		
	DD		Insulated locking screw	1000	10	15	-	METSECT5DD100	-	Included
				1250	12	15	-	METSECT5DD125 ⁽⁺³⁾		
				1500	15	20	-	METSECT5DD150 ⁽⁺³⁾		
DE		Insulated locking screw	1000	12	15	-	METSECT5DE100	-	Included	
			1250	15	20	-	METSECT5DE125 ⁽⁺³⁾			
			1500	20	25	-	METSECT5DE150 ⁽⁺³⁾			
			2000	20	25	-	METSECT5DE200 ⁽⁺³⁾			
DH		Insulated locking screw	1250	12	15	-	METSECT5DH125 ⁽⁺³⁾	-	Included	
			1500	12	15	-	METSECT5DH150 ⁽⁺³⁾			
			2000	20	25	-	METSECT5DH200 ⁽⁺³⁾			
Type V - solid-core CT (vertical bar profile)										
	VV		Insulated locking screw	5000	60	-	-	METSECT5VV500 ⁽⁺³⁾	-	Included
				6000	70	-	-	METSECT5VV600 ⁽⁺³⁾		

⁽⁺¹⁾ Maximum rated current (Imax) is 120% of the primary current (Ip).

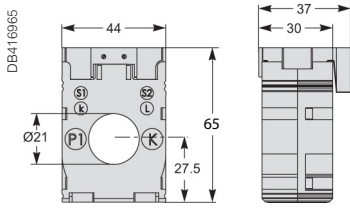
⁽⁺²⁾ Two pairs of secondary connectors are provided (parallel internal wiring - only one secondary winding) for easier cable access. One lateral and one on extremity. Hence, only one pair of secondary connector must be used at a time.

⁽⁺³⁾ Operating temperature: -25 to +50 °C (-13 to +122 °F)

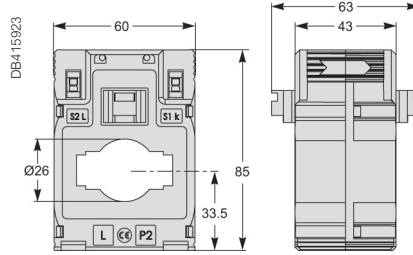
Please contact your Schneider Electric representative for complete ordering information.

Solid Core CT dimensions

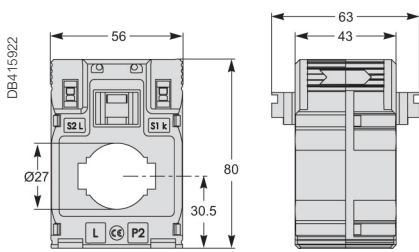
CC internal profile type



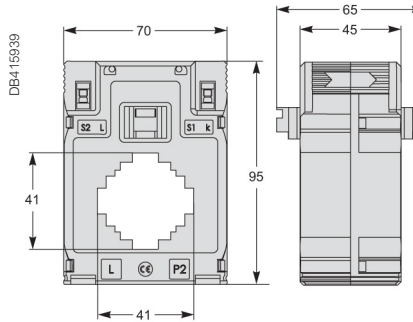
MB internal profile type



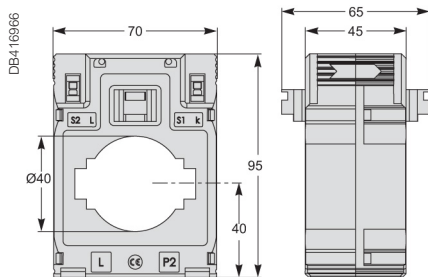
MA internal profile type



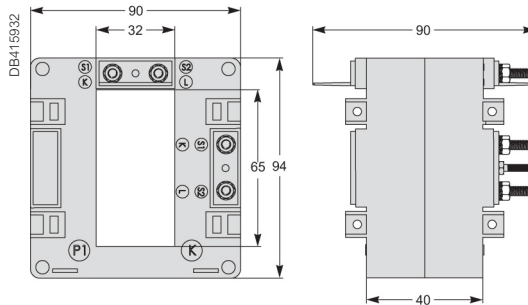
MC internal profile type



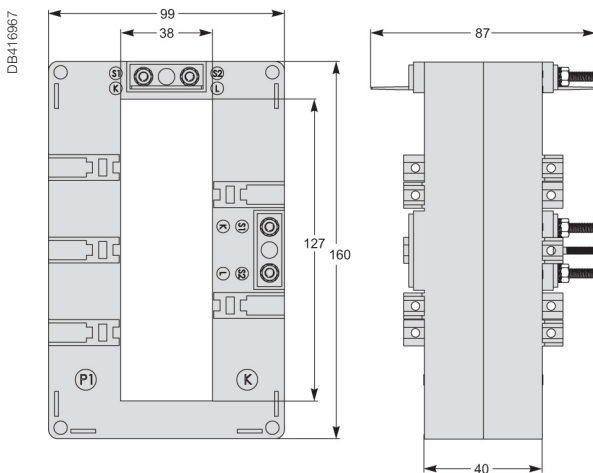
MD internal profile type



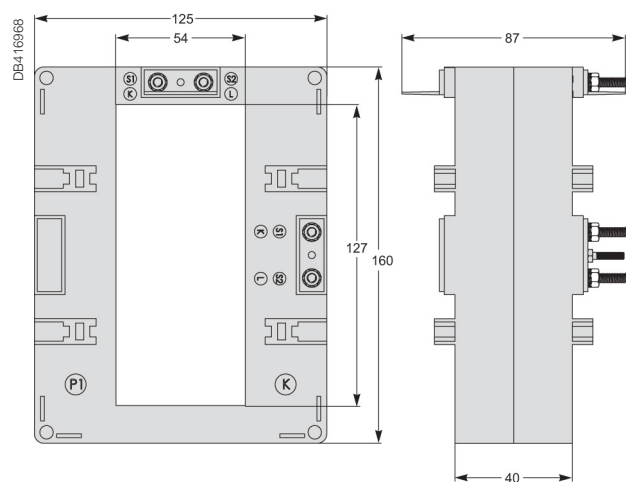
DA internal profile type



DB internal profile type

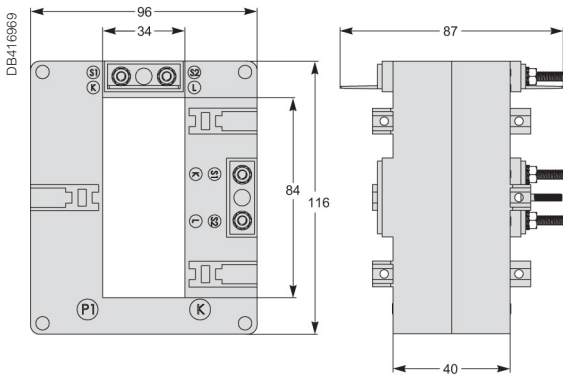


DC internal profile type

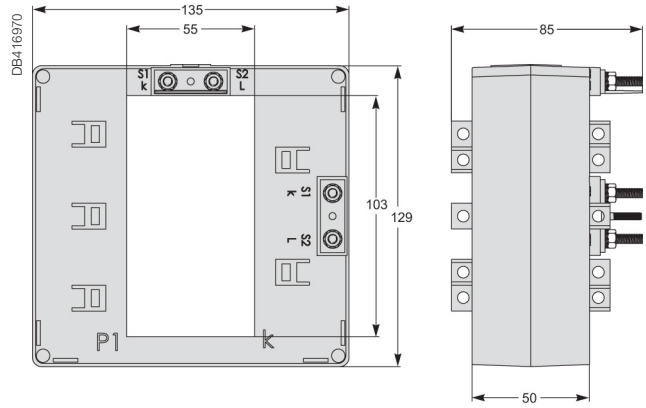


Solid Core CT dimensions contd.

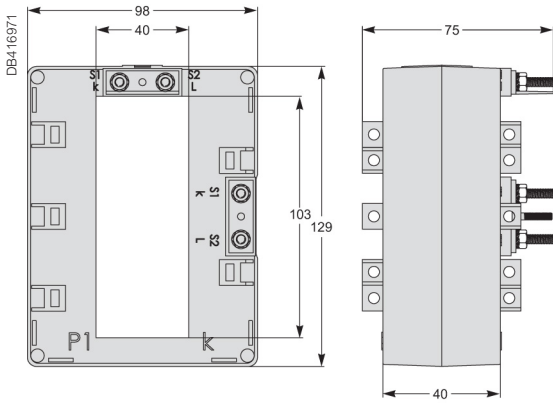
DD internal profile type



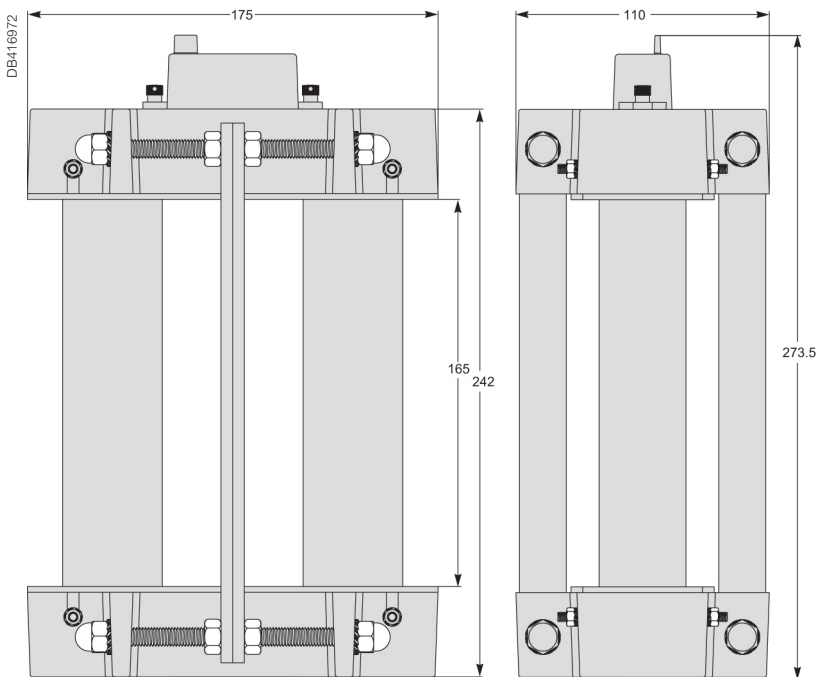
DE internal profile type



DH internal profile type



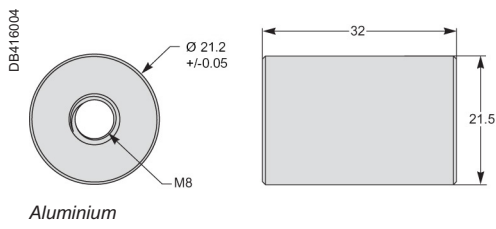
VV internal profile type



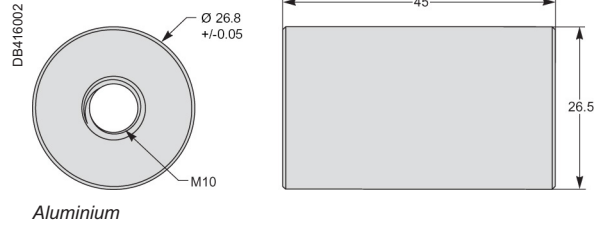
Solid Core cylinders dimensions

Cylinders

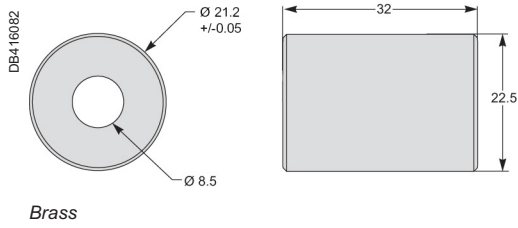
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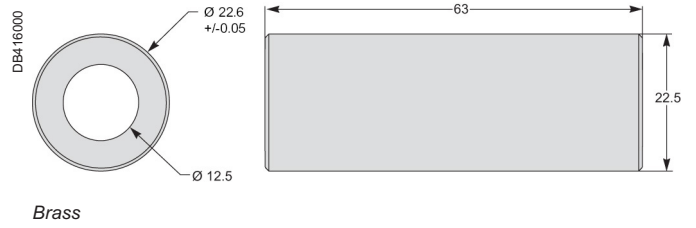
METSECT5CYL2



16550

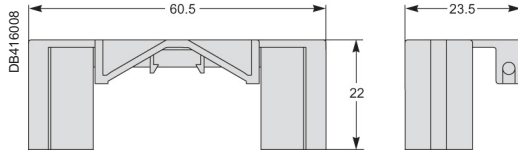


16551



Covers

METSECT5COVER



See the appropriate **Installation Guide** for correct installation instructions.

Split Core CTs

These current transformers from Schneider Electric are a comprehensive offer, ideally suited throughout the entire low voltage network, from 100 A to 4000 A. They deliver secondary current (0-5 A) proportional to the current measured at the primary. They can be used in combination with measurement devices (switchboard instrumentation, Ammeters, kilowatt-hour meters, power-monitoring units, control relays etc.). CTs with low VA burden allows them to be used in combination of measurement equipments.

The solution for

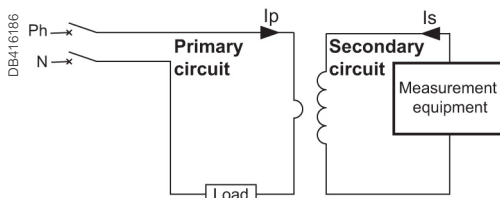
- Perfect for new and existing installations and expansion projects in a variety of markets:
- Commercial buildings
- Industrial facilities
- Medical facilities
- Data centers
- Education
- Oil & Gas

Benefits

- Installation: on symmetrical DIN rail, on mounting plate, on busbar
- Well adapted CT as the accuracy class is better than rated accuracy
- Current Transformers for coaxial cable (input range 100 A to 1000 A)
- Current Transformers for bus bar (input range 100 A to 4000 A)
- Current Transformers for cable or bar profile
- Compact size suitable for different sizes of conductors
- Tropicalized rating for harsh environmental condition
- Adaptable for different conductor profile and primary current intensity

$I_p/5$ A ratio

When the primary is energized, the measurement equipment nearly acts as a short circuit which keeps the secondary voltage very low. This voltage will increase significantly if the short circuit is removed. Hence, always keep the secondary circuit connected to low impedance path or current signal terminals of the measuring instrument.



Application diagram of a CT.

I_p - Primary Current
 I_s - Secondary Current

Features

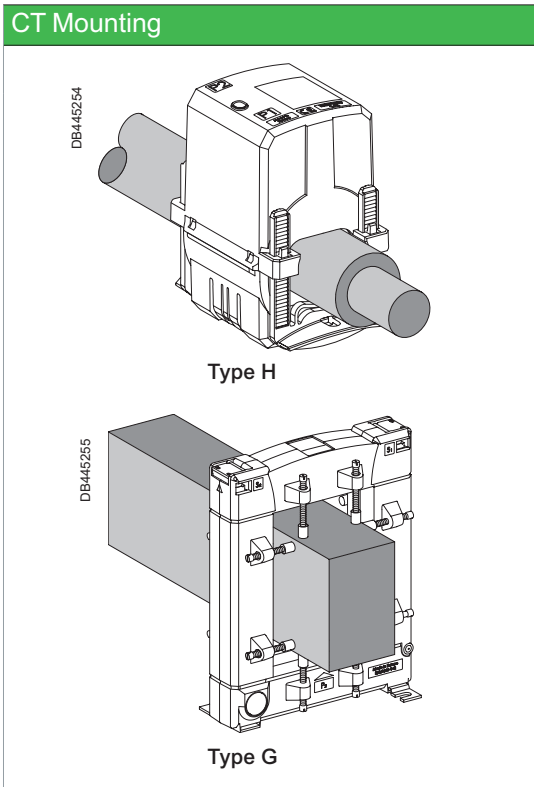
- A broad selection of ratings: from 100 A to 4000 A I_p with 120% max. range
- Split core design allows for CT installation without the need to uninstall and reinstall power conductor
- The split core CTs are designed for easy fit and assembly into existing installations, without separating the primary conductor.
- Click-system and fixing clasps allow single-handed mounting
- Fully compatible with Schneider Electric's complete portfolio of industry leading metering products as well as Third Party measurement devices.
- Safety through sealable insulating cover
- Compliance with IEC measurement standards with accuracy class ranges from Class 0.5 to Class 3
- Higher safety factor during installation and for facility
- For indoor use

Conformity of standards

- BS / EN 61869-1:2009
- BS / EN 61869-2:2012
- BS / EN 63000:2018
- VDE 0414
- Green Premium Ecolabel
- CE / UKCA certified
- EAC, Metrology

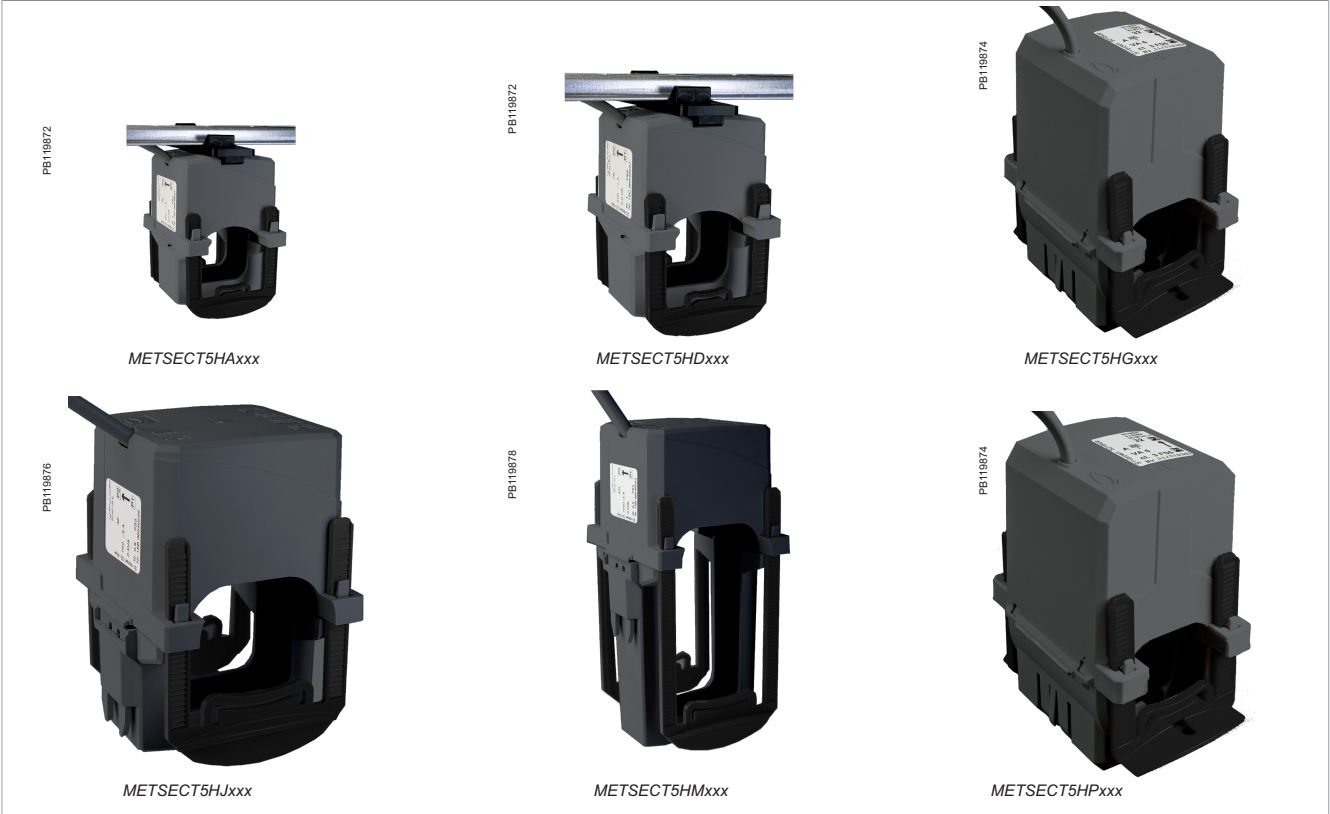
Split Core CTs

Mounting method



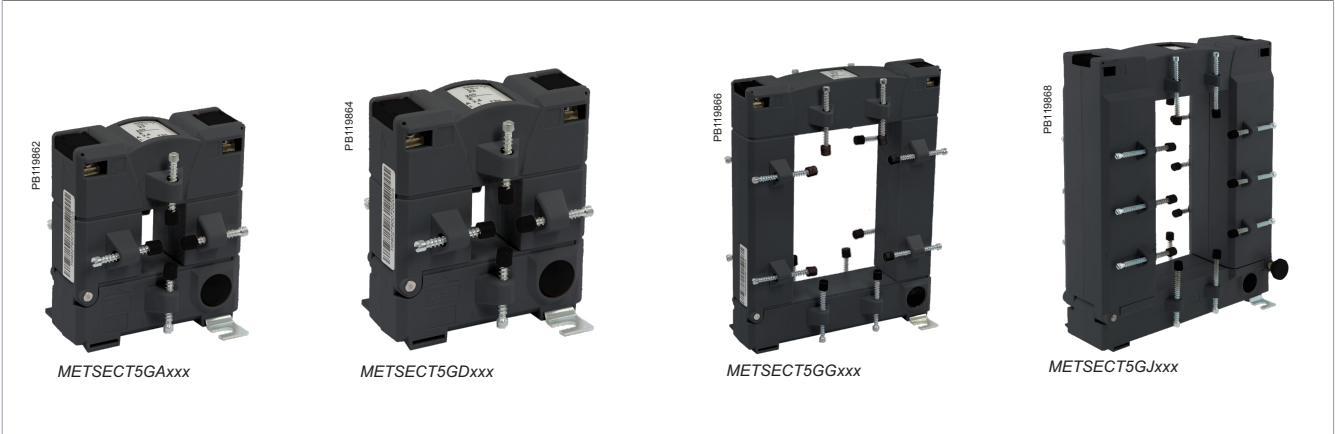
General characteristics	
Secondary current I_s (A)	5 A (S1- S2 terminals)
Maximum voltage rating U_e (V)	720 V
Dielectric strength test	3 kV, 50 Hz for one minute
Frequency (Hz)	50/60 Hz nominal (47 - 63 Hz)
Instrument security/ safety factor (FS/sf)	upto 1000 A: FS \leq 5 \geq 1000 A: FS \leq 10
Rated short time thermal current (I_{th})	60 times the I_p current for 1 s (max 60 kA)
Rated dynamic current (I_{dyn})	2.5 I_{th}
Degree of protection	IP20
Operating temperature	Tropicalised range: -5 to +60 °C Relative humidity: 5 % to 85 %
Storage temperature	-25°C to +70°C
Compliance with standards	BS / EN 61869-1:2009, BS / EN 61869-2:2012, BS / EN 63000:2018 VDE 0414
Secondary connection (as per model)	by terminals for lug or by tunnel terminals or by screws
Pollution degree	2
Installation category	III
Insulation class	E
Altitude	\leq 3000 m (9843 ft)

Type H











Split Core CTs

Type G














Commercial reference scheme

CT with let-through primary	CT internal type	Internal profile type and dimension in mm	Ip/5 A rating (A) ^(*)	Accuracy class VA rating			CT Commercial reference
				0.5	1	3	
Type G - split core CT (bus bar)							
 PB119862	GA	 FF V2 23 x 33	100	-	-	1.25	METSECT5GA010
			150	-	-	1.5	METSECT5GA015
			200	-	-	2.5	METSECT5GA020
			250	-	1.5	-	METSECT5GA025
			300	-	3.75	-	METSECT5GA030
			400	1	-	-	METSECT5GA040
 PB119864	GD	 FF V2 55 x 85	250	-	1.5	-	METSECT5GD025
			300	-	2.5	-	METSECT5GD030
			400	1	-	-	METSECT5GD040
			500	2.5	-	-	METSECT5GD050
			600	2.5	-	-	METSECT5GD060
			750	2.5	-	-	METSECT5GD075
			800	2.5	-	-	METSECT5GD080
 PB119866	GG	 FF V2 85 x 125	250	-	1.5	-	METSECT5GG025
			300	-	2.5	-	METSECT5GG030
			400	-	2.5	-	METSECT5GG040
			500	2.5	-	-	METSECT5GG050
			600	2.5	-	-	METSECT5GG060
			750	2.5	-	-	METSECT5GG075
			800	2.5	-	-	METSECT5GG080
			1000	5	-	-	METSECT5GG100
			1200	5	-	-	METSECT5GG120
			1250	7.5	-	-	METSECT5GG125
1500	7.5	-	-	METSECT5GG150			
 PB119868	GJ	 FF V2 85 x 165	1000	10	-	-	METSECT5GJ100
			1200	10	-	-	METSECT5GJ120
			1500	10	-	-	METSECT5GJ150
			1600	10	-	-	METSECT5GJ160
			2000	10	-	-	METSECT5GJ200
			2500	10	-	-	METSECT5GJ250
			3000	15	-	-	METSECT5GJ300
4000	15	-	-	METSECT5GJ400			

(*) Maximum rated current (Imax) is 120% of the primary current (Ip).

Split Core CTs

Commercial reference scheme (contd.)

CT with let-through primary	CT internal type	Internal profile type and dimension in mm	Ip/5 A rating (A) ^(*)	Accuracy class VA rating			CT Commercial reference
				0.5	1	3	
Type H - split core CT (cable)							
PB119872 	HA	 18.4 x 19	150	-	1	-	METSECT5HA015
			200	-	1.5	-	METSECT5HA020
			250	1	-	-	METSECT5HA025
	HD	 27.9 x 27	250	-	1	-	METSECT5HD025
			300	-	1.5	-	METSECT5HD030
			400	-	2.5	-	METSECT5HD040
			500	1	-	-	METSECT5HD050
PB119874 	HG	 Ø32.5	100	-	-	1.5	METSECT5HG010
			125	-	-	2.5	METSECT5HG013
			150	-	-	3	METSECT5HG015
			200	-	-	3	METSECT5HG020
			250	-	-	3	METSECT5HG025
			300	-	2.5	-	METSECT5HG030
			400	-	5	-	METSECT5HG040
			500	-	5	-	METSECT5HG050
			600	-	5	-	METSECT5HG060
PB119876 	HJ	 42.4 x 43	300	-	2.5	-	METSECT5HJ030
			400	-	5	-	METSECT5HJ040
			500	-	5	-	METSECT5HJ050
			600	2.5	-	-	METSECT5HJ060
			750	2.5	-	-	METSECT5HJ075
			800	2.5	-	-	METSECT5HJ080
PB119878 	HM	 42.4 x 85	300	-	2.5	-	METSECT5HM030
			400	-	5	-	METSECT5HM040
			500	-	5	-	METSECT5HM050
			600	2.5	-	-	METSECT5HM060
			750	2.5	-	-	METSECT5HM075
			800	2.5	-	-	METSECT5HM080
PB119874 	HP	 Ø44	250	-	1.5	-	METSECT5HP025
			300	-	2.5	-	METSECT5HP030
			400	-	5	-	METSECT5HP040
			500	-	5	-	METSECT5HP050
			600	-	5	-	METSECT5HP060
			750	-	5	-	METSECT5HP075
			800	-	5	-	METSECT5HP080
			1000	-	5	-	METSECT5HP100

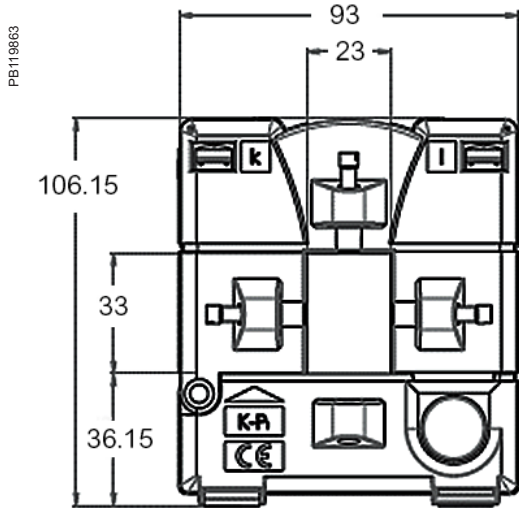
* Maximum rated current (Imax) is 120% of the primary current (Ip).

Please contact your Schneider Electric representative for complete ordering information.

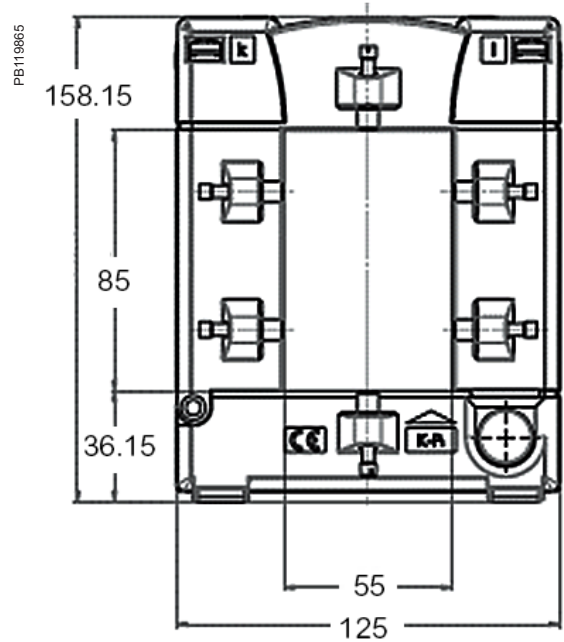
Split core CT dimensions

Gx products

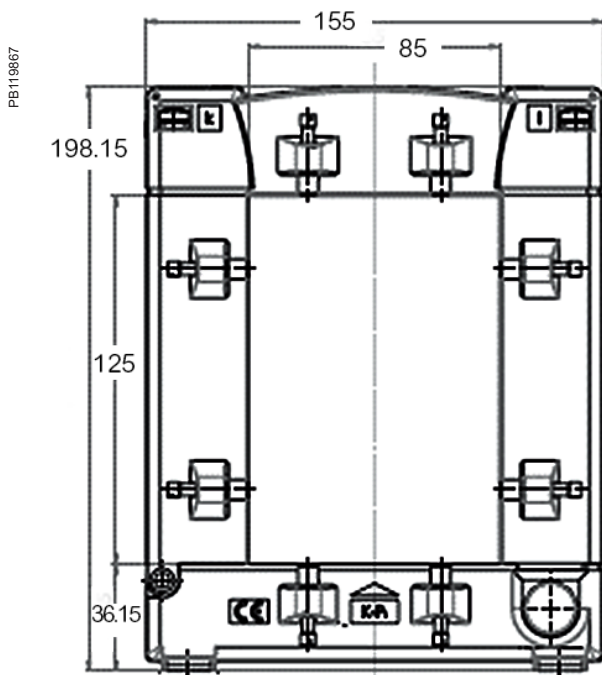
GA Dimensions



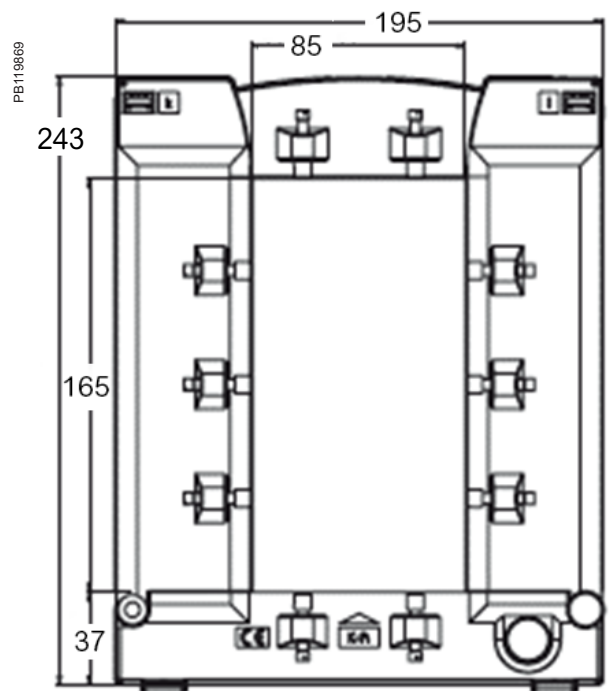
GD Dimensions



GG Dimensions



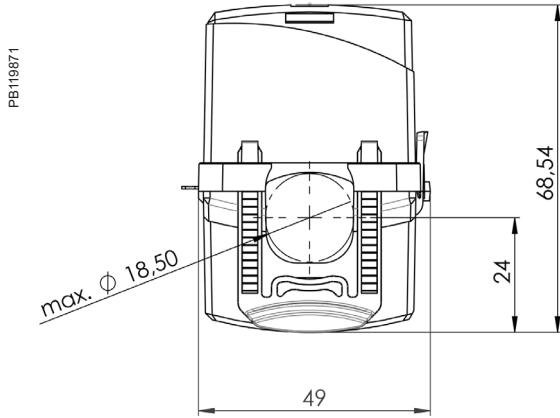
GJ Dimensions



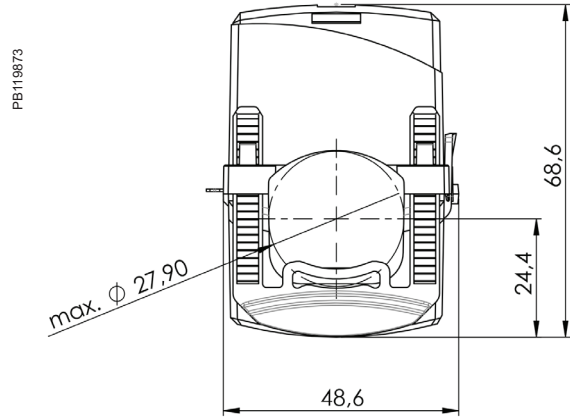
Split core CT dimensions (contd.)

Hx products

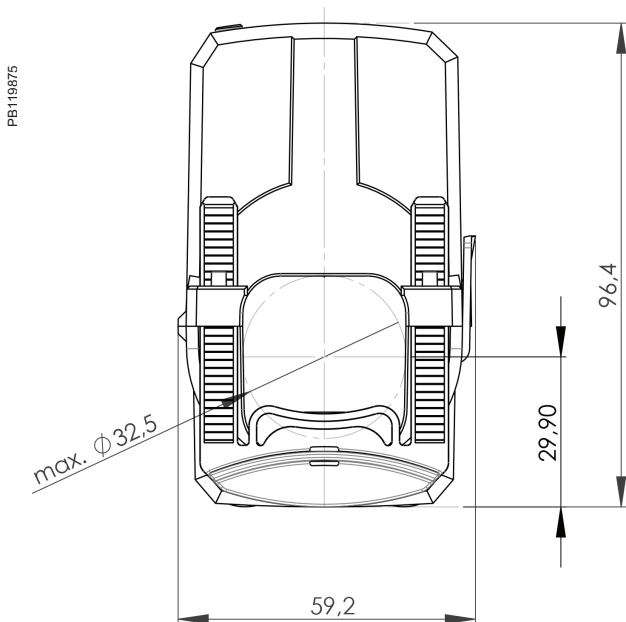
HA Dimensions



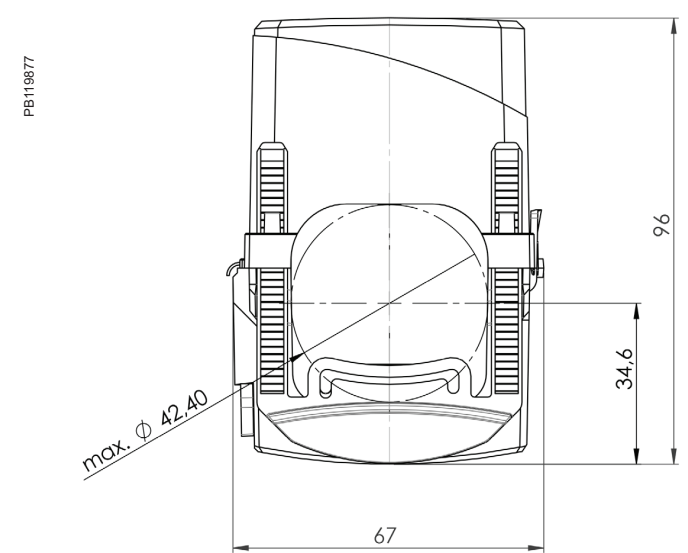
HD Dimensions



HG Dimensions



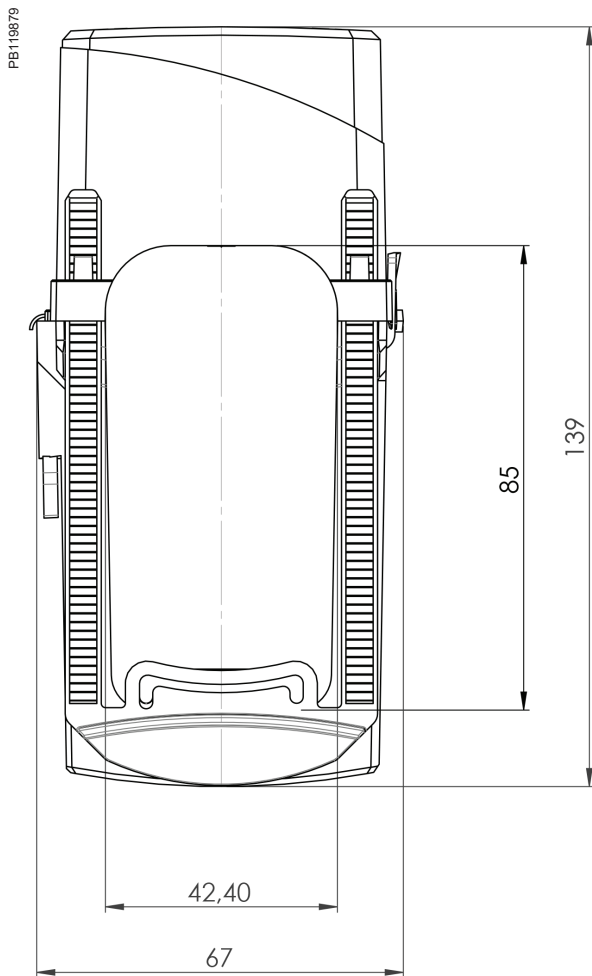
HJ Dimensions



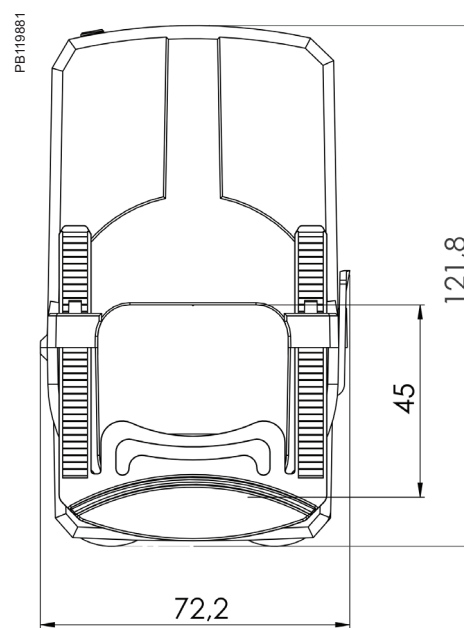
Split core CT dimensions (contd.)

Hx products

HM Dimensions



HP Dimensions



See the appropriate **Installation Guide** for correct installation instructions.

PowerLogic Low Voltage Current Transformers (LVCT)

Solid Core, Split Core types, and Rogowski Coil

Schneider Electric's Low Voltage Current Transformers (CTs) offer secondary voltage AC proportional to the primary (sensed) current. These CTs are designed for use with power meters, data loggers, chart recorders, and other instruments, providing a cost-effective means to convert electrical service amperages to a voltage compatible with monitoring equipment.

The Low Voltage CTs are available in Split Core and Solid Core models, with 0.333 Vac output versions.

Schneider Electric provides four proven models of PowerLogic™ Rogowski flexible core current transducers, ranging from 250 to 900 mm in length and operating within a current range of 50 to 5000 A.

Solid core CTs - Micro



Rogowski Coil



Split core CTs - Small, Medium and Large



Split core CTs - Micro



Solid Core CTs

The listed Current Transformers from Schneider Electric are a comprehensive offer, ideally suited for low voltage network, from 50 to 400 A. They deliver secondary output in the form of 0.333 V proportional to the current measured at the primary. They can be used in combination with measurement devices (switchboard instrumentation, Ammeters, kilowatt-hour meters, power-monitoring units and, control relays etc.).

Solution

- Perfect for new and existing installations and expansion projects in a variety of markets:
 - Commercial buildings
 - Industrial facilities
 - Data centers
 - Oil and Gas
 - Infrastructure

Benefits

- Safety: UL multi listed
- Installation: on cable or bar profiles
- Well adapted CTs as the accuracy class is better than rated accuracy
- CTs for coaxial cable
- CTs for cable or bar profile
- Tropicalized rating for harsh environmental condition

Features

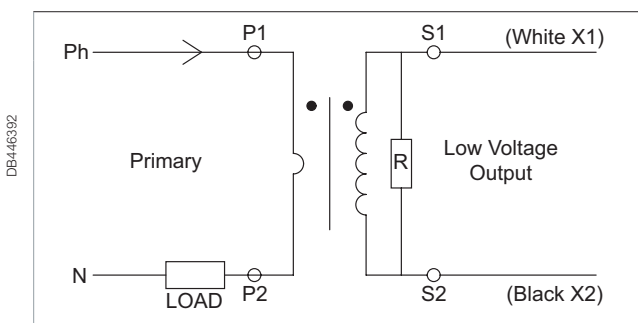
- Option of CT primary selection: from 50 to 400 A Ip with 120% max. range
- Fully compatible with Schneider Electric's complete portfolio of industry leading metering products as well as third party measurement devices.
- Compliance with IEC measurement standards with accuracy Class 0.5
- Higher safety factor during installation and for facility
- For indoor use
- Low voltage output for safer installation

Conformity of Standards

- UL/CSA 61010-1
- UL/CSA 61010-2-030
- IEC/EN 61010-1
- IEC/EN 61010-2-030
- EN IEC 63000:2018
- UL/CSA 2808
- IEC 61869-2
- CE/UKCA certified

CT Principle

When the primary circuit of a Current Transformer is energized, the Current Transformer presents a very low impedance to the secondary circuit, resulting in a low secondary voltage across the burden.

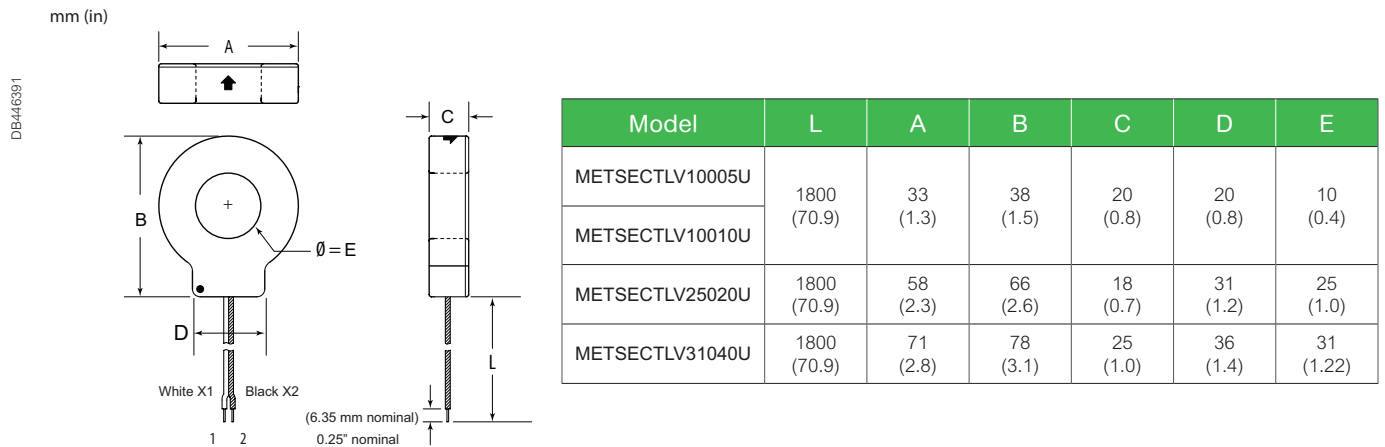


Solid Core LVCTs

CT selection - conductor rating aspects

- The choice depends on the conductor size and the maximum current of the primary circuit.
- Primary current can be measured through CT with let-through primary.

Solid Core LVCT - Micro Dimension



Typical limits of current error and phase displacement error for measuring Current Transformers (classes from 0.1 to 1)

Accuracy Class	± Percentage current (ratio) error at percentage of rated current shown below				± Phase displacement at percentage of rated current as shown below							
					Minutes				Centiradians			
	5	20	100	120	5	20	100	120	5	20	100	120
0.1	0.4	0.2	0.1	0.1	15	8	5	5	0.45	0.24	0.15	0.15
0.2	0.75	0.35	0.2	0.2	30	15	10	10	0.9	0.45	0.3	0.3
0.5	1.5	0.75	0.5	0.5	90	45	30	30	2.7	1.35	0.9	0.9
1.0	3.0	1.5	1.0	1.0	180	90	60	60	5.4	2.7	1.8	1.8





Solid Core LVCTs

Technical Specification

Type	Solid Core
Output at rated current	0.333 Vac
Accuracy	Class 0.5 as per IEC 61869-2
Frequency	50/60 Hz ± 3
Leads	18 AWG Twisted pair, 1.8m (6 ft.) standard length
Dielectric strength	3310 Vrms, 60 Hz, 5 Seconds.
Rated dynamic current (I_{dyn})	2.5 I_{th}
Operating temperature range	-40...85 °C (-40...185 °F)
Storage temperature range	-50...105 °C (-58...221 °F)
Humidity range	0-95% non-condensing
Max. voltage L-N sensed conductor	600 Vac (basic insulation rating)
Altitude of operation	3000 m max.
Mounting location	Not suitable for wet locations. For indoor use only.
Approvals	UL/CSA 61010-1, UL/CSA 61010-2-030, IEC/EN 61010-1, IEC/EN 61010-2-030, EN IEC 63000:2018, UL/CSA 2808
Installation category	Cat III, pollution degree 2

Commercial Reference Scheme

CT with let-through primary	CT internal type	Internal profile type and Dimension (mm (In))	$I_p/0.333 V$ rating ⁽⁺³⁾ (A)	Accuracy class	Rated short time thermal current I_{th} (kA)	CT Commercial reference	
Solid Core CT (cable)							
	Micro		10 (0.39)	50	0.5	0.5	METSECTLV10005U
				100	0.5	1	METSECTLV10010U
			25 (1.0)	200	0.5	2	METSECTLV25020U
			31 (1.22)	400	0.5	4	METSECTLV31040U

⁽⁺³⁾ Maximum rated current (I_{max}) is 120% of the primary current (I_p).

Representation of Commercial Reference Numbers for Solid Core LVCTs

MET SE CT LV XX XXX U

XX = Window Size

XXX = Primary rating/10
(Rounded off to next digit)

U = UL 2808/
IEC 61010

Example:
MET SE CT LV 25 020 U

- MET** - METering
- SE** - Schneider Electric
- CT** - Current Transformer
- LV** - Low Voltage
- 25** - Window Size
- 020** - 200 A Primary rating, divide by 10
- U** - for UL 2808/IEC 61010

DB446395

Commercial Reference Number	Description
METSECTLV10005U	Solid core LVCT, 50 A primary, 0.333 V output, 1.8m (6 ft.) lead length
METSECTLV10010U	Solid core LVCT, 100 A primary, 0.333 V output, 1.8m (6 ft.) lead length
METSECTLV25020U	Solid core LVCT, 200 A primary, 0.333 V output, 1.8m (6 ft.) lead length
METSECTLV31040U	Solid core LVCT, 400 A primary, 0.333 V output, 1.8m (6 ft.) lead length

Split Core LVCTs

The listed Split Core Current Sensors from Schneider Electric are a comprehensive offer, ideally suited for low voltage network, from 50 to 2400 A. They deliver secondary output in the form of 0.333 V proportional to the current measured at the primary. They can be used in combination with measurement devices (switchboard instrumentation, Ammeters, kilowatt-hour meters, power-monitoring units, control relays etc.). Split Core CTs are available in four distinctive frame sizes for LVCT options to accommodate different sizes of bus bars or round cables.

The solution for

- Perfect for new and existing installations and expansion projects in a variety of markets targeting retrofit application:
 - Commercial buildings
 - Industrial facilities
 - Data centers
 - Oil and Gas
 - Infrastructure

Benefits

- Safety: UL multi listed
- Well adapted Current Transformers as the accuracy class is better than rated accuracy
- Current Transformers for coaxial cable
- Current Transformers for cable or bar profile
- Tropicalized rating for harsh environmental condition
- Quick retrofit in existing panels

Features

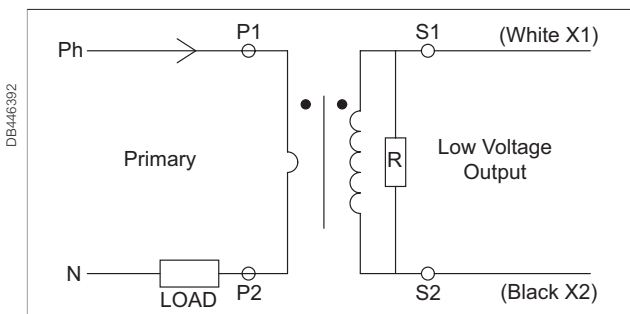
- Option of Current Transformers primary selection: from 50 to 2400 A Ip with 120% max. range
- Fully compatible with Schneider Electric's complete portfolio of industry leading metering products as well as third party measurement devices.
- Compliance with IEC measurement standards with accuracy Class 1
- Higher safety factor during installation and for facility
- For indoor use
- Low voltage output for safer installation

Conformity of Standards

- BS/EN 61869-2:2012
- UL 2808 multi listed
- EN 61010-1
- CE/UKCA certified
- UL/CSA 61010-1
- UL/CSA 61010-2-030
- IEC/EN 61010-1
- IEC/EN 61010-2-030
- EN IEC 63000:2018
- UL/CSA 2808
- IEC 61869-2

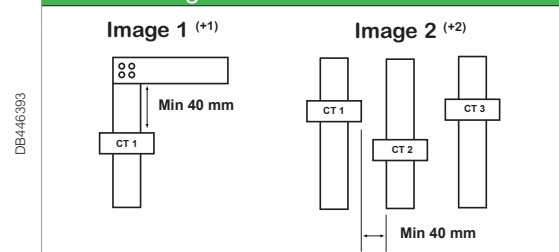
CT Principle

When the primary circuit of a Current Transformers is energized, the CTs presents a very low impedance to the secondary circuit, resulting in a low secondary voltage across the burden.



Mounting Method

CT Mounting



(+1) To install CS in Elbow joint of the busbars, it is recommended to separate them at a minimum of 40 mm (1.57 in) rating from 1000 to 3000 A CT.

(+2) To reduce magnetic interference between CS on adjacent busbars, it is recommended to separate them at a minimum of 40 mm (1.57 in) rating from 1000 to 3000 A CT.

Split Core LVCTs

Technical Specification

Type	Split Core (LVCT frame size - small, medium and large)	Split Core (LVCT frame size - micro)
Output at rated current	0.333 Vac	0.333 Vac
Accuracy	Class 1 as per IEC 61869-2*	Class 1 as per IEC 61869-2*
Frequency	50/60 Hz ± 3	50/60 Hz ± 3
Leads	16 AWG Twisted pair, 8 ft. (2.4 m) standard length	18 AWG Twisted pair, 6 ft. (1.8 m) standard length
Dielectric strength	5400 Vrms, 60 Hz, 60 s	METSECTLV1005U : 2210 Vrms, 60 Hz, 5 s. All other Split Core models : 3310 Vrms 60 Hz, 5 s
Rated dynamic current (I _{dyn})	2.5 I _n	2.5 I _n
Operating temperature range	-15...60 °C (5...140 °F)	0...70 °C (32...158 °F)
Storage temperature range	-40...70 °C (-40...158 °F)	-40...105 °C (-40...221 °F)
Humidity range	0...95% non-condensing	0...95% non-condensing
Max. voltage L-N sensed conductor	600 Vac (basic insulation rating)	METSECTLV1005U : 250 Vac (basic insulation rating) All other Split Core models : 600 Vac (basic insulation rating)
Altitude of operation	2000 m (6561.68 ft) max.	3000 m (9842.52 ft) max
Mounting location	Not suitable for wet locations. For indoor use only.	Not suitable for wet locations. For indoor use only.
Approvals	UL/CSA 61010-1, UL/CSA 61010-2-030, IEC/EN 61010-1, IEC/EN 61010-2-030, EN IEC 63000:2018, UL/CSA 2808	U UL/CSA 61010-1, UL/CSA 61010-2-030, IEC/EN 61010-1, IEC/EN 61010-2-030, EN IEC 63000:2018, UL/CSA 2808 L2808
Installation category	Cat III, pollution degree 2	Cat III, pollution degree 2

*Not applicable for 50 A – class 1 for ratio error and Phase displacement < ± 144 Minutes.

**Not applicable for small internal type 200...300 A CTs - Class 1 for ratio error, Phase displacement < ± 300 Minutes.

Representation of Commercial Reference Numbers for Split Core LVCTs

DB446396

MET SE CT LV X XXX U

X = Size Reference
(1:Micro, 2:Small, 3:Medium, 4:Large)

XXX = Primary rating/10
(Rounded off to next digit)




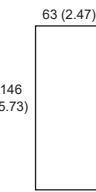




U = UL 2808/
IEC 61010

Example:
MET SE CT LV 1 020 U

MET - METering
SE - Schneider Electric
CT - Current Transformer
LV - Low Voltage
1 - Size Reference: Micro
020 - 200 A Primary rating, divide by 10
U - for UL 2808/IEC 61010

Split Core LVCTs

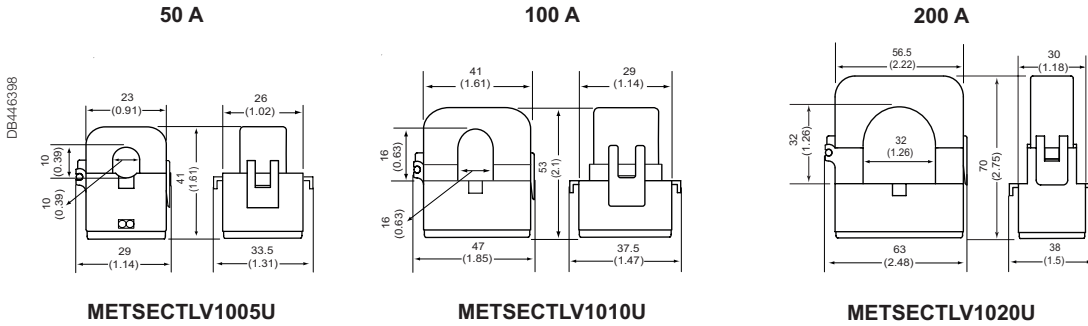
Commercial Reference Scheme

CS with let-through primary	CT internal type	Internal profile type and Dimension (mm (in))	I _p /0.333 V rating ⁽⁺³⁾ (A)	Accuracy class	Rated short time thermal current I _{th} (kA)	CT commercial reference	
Split Core CT (bus bar)							
	Small		100	1	10.4	METSECTLV2010U	
			200	1	10.8	METSECTLV2020U	
			300	1	10	METSECTLV2030U	
			400	1	13.8	METSECTLV2040U	
	Medium		600	1	20.6	METSECTLV3060U	
			800	1	35	METSECTLV3080U	
	Large		800	1	35	METSECTLV4080U	
			1000	1	34	METSECTLV4100U	
			1200	1	41	METSECTLV4120U	
			1600	1	87	METSECTLV4160U	
			2000	1	109	METSECTLV4200U	
			2400	1	105	METSECTLV4240U	
Split Core CT (cable)							
	Micro		50	1	0.5	METSECTLV1005U	
				100	1	1	METSECTLV1010U
					200	1	2

Split Core LVCTs

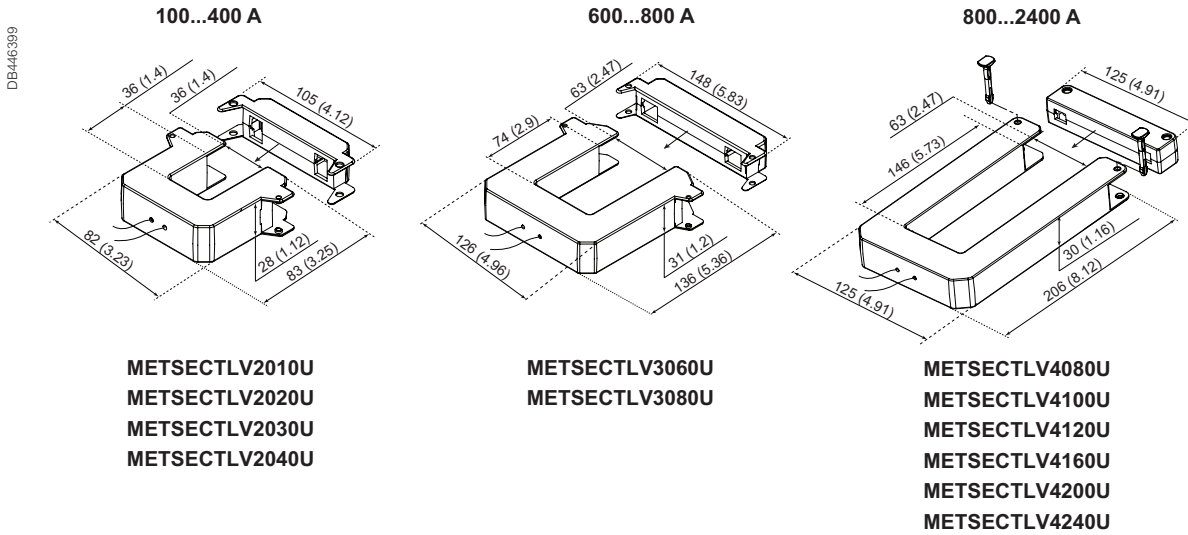
Split Core LVCT Micro Dimension

mm (in)



Split Core LVCT (Small, Medium and Large) Dimension

mm (in)



Rogowski Coil Current Transducer Technical Datasheet

Schneider Electric is the global specialist in energy management with the most complete power monitoring product line. From simple indicators (analogue meters) and CTs, to world class energy meters and powerful compact power meters, these proven products satisfy any requirement.

Schneider Electric currently offers four proven models of PowerLogic™ Rogowski flexible core Current Transducer. These are available from 250 to 900 mm in length operating in a current range of 50 to 5000 A.

PE118060



Rogowski Coil Current Transducer

The CTRx Series of Rogowski flexible rope style Current Transducer provide secondary AC voltage proportional to the primary (sensed) current. Recommended to use with Schneider make EM35xxA, iEM35x5, EM42xx and EM3570 series power meters.

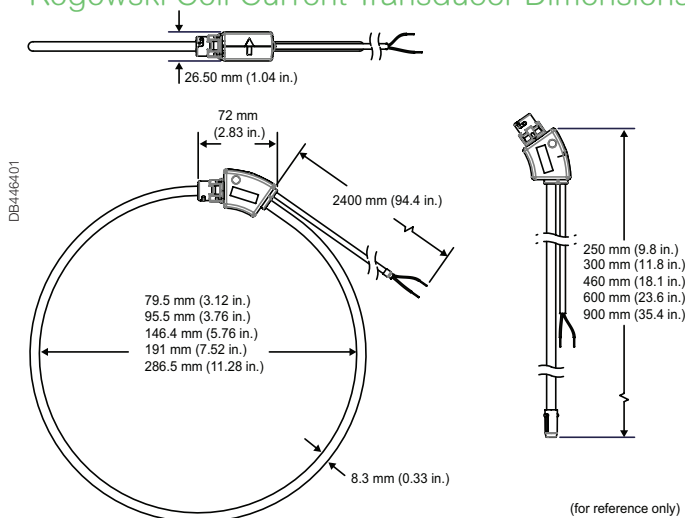
The CTRx Series Current Transducers provide a cost-effective means to transform electrical service amperages to a voltage compatible with monitoring equipment. The flexible core makes it easy to fit in tight enclosures. These products provide reinforced insulation between the sensed conductor and the output leads.

Technical specification

Specification for commercial reference	METSECTR25500U, METSECTR30500U, METSECTR46500U, METSECTR60500U, METSECTR90500U
Range	PowerLogic™
Product or component type	Current Transducer
Accessory/part category	Measurement accessory
Range compatibility	PowerLogic™ EM3500 - EM3555A EM3502A EM3560 EM3550A EM3560 EM3561A EM3570 PowerLogic™ EM4200 - EM4236 EM4235 Acti9 iEM3000 - iEM3555 iEM3565
Current transformer type	Flexible core
Specification	
Connecting cable - flying lead	2.4 m (8 ft), 600 V L-N AC max.
Connecting cable specification	1000 V awm style 20167 cable with 24 AWG leads
Coil current range	50...1000 A for METSECTR25500U 50...2000 A for METSECTR30500U 50...5000 A for all models except for METSECTR25500U and METSECTR30500U
Output voltage	58.3 mV/kA @ 50 Hz, 70 mV/kA @ 60 Hz
Network frequency of coil	50/60 Hz
Measurement accuracy of coil	Class 1-A1 as per IEC 61869-10
Installation category of coil	600 Vac Cat IV
Pollution degree of coil	2
Environmental characteristics	
Approvals	ANSI/CAN/UL 2808 Ed.3, CSA C22.2 NO. 61010-1-12, IEC 61010-1, EN IEC 63000:2018
Ambient air temperature for operation	-35 to 75 °C (-31 to 167 °F) up to 2 kA -35 to 60 °C (-31 to 140 °F) from 2 to 5 kA
Ambient air temperature for storage	-40 to 90 °C (-40 to 158 °F)
Humidity range	0...95 % non-condensing
Altitude	2000 m (6561.68 ft) max.
Protection degree	IP65
Commercial Reference Numbers	
METSECTR25500U	CT Rogowski 250 mm (9.8 in) coil, 1000 A, Lead length 2.4 m (8 ft)
METSECTR30500U	CT Rogowski 300 mm (11.8 in) coil, 2000 A, Lead length 2.4 m (8 ft)
METSECTR46500U	CT Rogowski 460 mm (18.1 in) coil 5000 A, Lead length 2.4 m (8 ft)
METSECTR60500U	CT Rogowski 600 mm (23.6 in) coil 5000 A, Lead length 2.4 m (8 ft)
METSECTR90500U	CT Rogowski 900 mm (35.4 in) coil 5000 A, Lead length 2.4 m (8 ft)

Please contact your Schneider Electric representative for complete ordering information.

Rogowski Coil Current Transducer Dimensions



Commercial Reference Numbers	CT core thickness (mm (in))	CT core length (open) (mm (in))	Diameter (closed) (mm (in))
METSECTR25500U	8.3 (0.33) dia	250 (9.8)	79.5 (3.12)
METSECTR30500U	8.3 (0.33) dia.	300 (11.8)	95.5 (3.76)
METSECTR46500U	8.3 (0.33) dia.	460 (18.1)	146.4 (5.76)
METSECTR60500U	8.3 (0.33) dia.	600 (23.6)	191 (7.52)
METSECTR90500U	8.3 (0.33) dia.	900 (35.4)	286.5 (11.28)

See the appropriate **Installation Guide** for correct installation instructions.

Basic Energy Metering

Basic energy meters comply with a variety of applications: single-phase or three-phase circuits, basic kWh meters for elementary applications, to full-featured, dual tariff energy meters and power metering for network monitoring applications. Data is visible locally or accessible remotely. Wireless communication energy sensors with compact design allow to optimize panel size.

- Acti9 iEM2000 series
- Acti9 iEM2400 series
- Acti9 iEM3000 series
- PowerLogic™ EM3570 series
- PowerLogic™ EM3000 series
- PowerLogic™ PM3000 series
- PowerLogic™ PowerTag Energy series



PB108451

A9MEM2000



PB118059

A9MEM2055



PB113702

A9MEM2435



A9MEM1580

A9MEM1580



PB108450

A9MEM3135



PB108450

METSEPM3250



PB125756

METSEEM3122



PB124812

METSEEM3570A

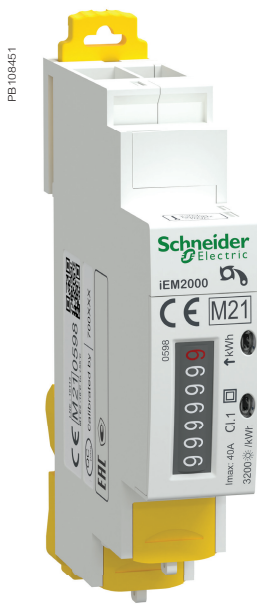
Acti9 iEM2xxx Range Technical Datasheet

iEM2000 and iEM2400 series

The Acti9 iEM2xxx range energy meters offer a cost-attractive, competitive range of single-phase DIN rail-mounted energy meters ideal for sub-billing, cost allocation applications and support two protocols (Modbus RS-485 or M-Bus) that allow them to integrate seamlessly into any energy monitoring system.

Applications

- Monitor power consumption for each floor, office sector, unit or workshop with maximum current from 40 A, 45 A and 100 A
- Allocate energy cost to lower cost of operations, optimise building's power efficiency
- Connect to power management software to take full advantage of the IoT digital power installation
- Various businesses, industrial and residential applications



A9MEM2000



A9MEM2055



A9MEM2435

The solution for:

All markets that can benefit from a solution that includes Acti9 PowerLogic™ iEM2000 and iEM2400 series meters:

- Buildings
- Industry
- Data Centre & networks
- Infrastructures (airport, road tunnels, telecom...)

Benefits

The Acti9 PowerLogic™ iEM2xxx meters are economical and easy to install in panelboards and switchboards:

- DIN rail mounted, compact size
- Accurate data measurement with Class 1 accuracy for kWh and Class 2 accuracy for kVARh*
- Measures basic electrical parameters like voltage, current, frequency, power factor and power*

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

*in selected references.

Competitive advantages*

- Compact size - Compatible with Acti9 range, 18 mm width in iEM2000, 36 mm width in iEM2400
- Display - available in displayless, electromech counter display or LCD display
- Communication - Pulse output, Modbus RS-485 or M-Bus communication port
- Self-powered, direct connect upto 100 A
- MID, UKCA MIR compliant providing certified accuracy and data security
- Four quadrant measurement
- Two tariffs
- Basic electrical parameter measurement eg. V, I, F, PF, PQS

Conformity of standards

- BS/EN/IEC 61557-12:2018/AMD1:2021*
- BS / EN / IEC 62053-21
- BS / EN / IEC 62053-23*
- BS / EN 50470-1/3:2006*
- BS / EN / IEC 62052-11
- BS / EN / IEC 62052-31:2015*
- BS / EN / IEC 61326-1
- BS / IEC / EN 61010-1
- BS / EN / IEC 63000:2018
- CE, UKCA, UKCA MIR certified

iEM2xxx Range Feature selection

Functions	iEM2000T	iEM2000/iEM2010	iEM2050/ iEM2055	iEM2435/ iEM2455
40A I _{max}	■	■		
45A I _{max}			■	
63A I _{max}				
100A I _{max}				■
Communication port			RS-485	M-Bus (iEM2435) RS-485 (iEM2455)
Pulse output (Energy)	1	1 (iEM2010)	1	2
Digital inputs (Tariff switching)				
Display Type	No	Electromechanical Counter	LCD	
Width (mm)	18		17.5	35.7
Multi Tariff counter			2	2
Wh accuracy (BS/EN/IEC 62053-21)	Class 1			
Compliance to BS/EN/IEC 61557-12	■	■		
VARh accuracy (BS/EN/IEC 62053-23)	Class 2			
4 Quadrants measurement			■	
MID Class B (BS/EN 50470-3), 50 Hz		■	■ (iEM2055)	■
V A F PF			■	
Power (P Q S)			■	

See your Schneider Electric representative for complete ordering information.

Acti9 iEM2xxx Range technical specifications

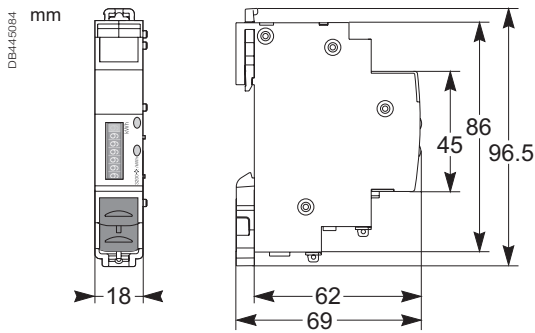
iEM2000, iEM2100, iEM2400 series technical specifications

	iEM2000/ iEM2000T/ iEM2010	iEM2050/iEM2055	iEM2435/iEM2455
Type of measurement	True rms for single-phase AC systems with direct connect/whole current measurement		
Max. current (Imax)	40 A	45 A	100 A
Basic current (Inom)	5 A		5 A
Starting current	40 mA	20 mA	20 mA
Voltage range (L-N)	184 to 276 V AC	195 to 253 V AC	195 to 253 V AC
Frequency range	50 Hz MID and IEC / 60 Hz IEC		
Max. kWh resolution	999999.9 kWh	9999.99 kWh to 99999.9 MWh	9999.99 kWh to 99999.9 MWh
Pulse output	100 pulses/kWh (120 ms), 5...35 V DC, 1...20 mA (except iEM2000)	10000, 2000, 1000, 100, 10, 1, 0.1, 0.01 pulses/kWh (11.2 or 32 ms), 5...27 V DC, max 100 mA	10000, 2000, 1000, 100, 10, 1, 0.1, 0.01 pulses/kWh, (5...32 ms), 5...27 V DC, max 100 mA
Meter constant LED	3200 flashes per kWh	10000 flashes per kWh	10000 flashes per kWh
Cable size (power connection)	10 mm ²	10 mm ²	25 mm ²
Cable size (for communications)	4 mm ²	2.5 mm ²	2.5 mm ²
Internal burden, at 240 V L-N, 50 Hz	<10 VA		<10 VA
Active energy	■		
Reactive energy		■	■
Active power		■	■
Reactive power		■	■
Apparent power		■	■
Power Factor		■	■
Current and voltage		■	■
Frequency		■	■
LED for local signalling	Green LED: power ON Yellow LED: 3200 impulse per kWh	Red LED: 10000 impulse per kWh	Red LED: 10000 impulse per kWh
CE, UKCA* certification	■		
IP degree of protection (IEC 60529)	IP40 front panel and IP20 casing	IP51 front panel and IP20 casing	IP51 front panel and IP20 casing
Operating temperature	-10°C to +55°C For iEM2000T: Temp range is: I < 32 A: -25 °C to +65 °C, I > 32 A: -25 °C to +55 °C (K55)	-40°C to +70°C	
Storage Temperature	-40°C to +70°C	-40°C to +80°C	
Humidity at +55°C	<95 %	<75 %	<75 %
Green Premium product (RoHS, China RoHS, REACH, PEP, EOL)	■		
Altitude	<2000 m	<2000 m	<2000 m
Measurement category	Category III		
Pollution degree	2		
Commercial reference number	A9MEM2000 A9MEM2000T A9MEM2010	A9MEM2050 A9MEM2055	A9MEM2435 A9MEM2455

* in selected references.

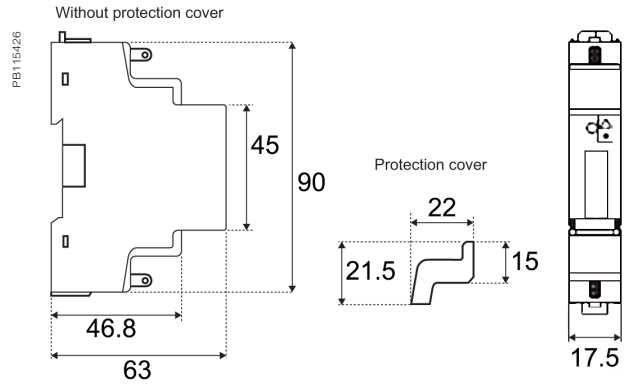
Acti9 iEM2xxx range dimensions

iEM2000/iEM2000T/iEM2010 dimensions



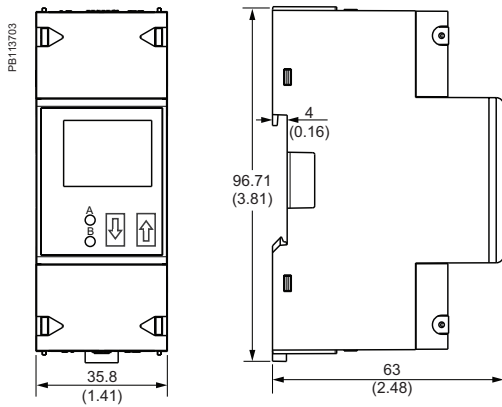
Maximum diameter power connection clamps 8 mm² (solid copper). See the appropriate product Installation Guide for complete instructions

iEM2050/iEM2055 dimensions



Maximum diameter power connection clamps 8 mm² (solid copper). See the appropriate product Installation Guide for complete instructions.

iEM2435/iEM2455 dimensions



Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.

Acti9 iEM2xxx range commercial reference numbers

iEM2000, iEM2100, iEM2400 series commercial/ordering reference numbers

Commercial reference number	Product description
A9MEM2000T	iEM2000T energy meter, Class 1, 230 V, 40 A, pulse output, no display
A9MEM2000	iEM2000 energy meter, Class 1, 230 V, 40 A, MID, electromechanical counter display
A9MEM2010	iEM2010 energy meter, Class 1, 230 V, 40 A, MID, pulse output, electromechanical counter display
A9MEM2050	iEM2050 power and energy meter, Class 1, 230 V, 45 A, RS-485, 2 tariffs, pulse output, LCD display
A9MEM2055	iEM2055 power and energy meter, Class 1, 230 V, 45 A, RS-485, MID, 2 tariffs, pulse output, LCD display
A9MEM2435	iEM2435 power and energy meter, Class 1, 230 V, 100 A, M-Bus, MID, 2 tariffs, 2 pulse outputs, 4 quadrants, LCD display
A9MEM2455	iEM2455 power and energy meter, Class 1, 230 V, 100 A, RS-485, MID, 2 tariffs, 2 pulse outputs, 4 quadrants, LCD display

See your Schneider Electric representative for complete ordering information.

PowerLogic™ EM3570 Series

The PowerLogic™ EM3570 series DIN rail mount energy meters with Ethernet are the new benchmark for affordable and precision metering application.

Engineered on the trusted PowerLogic platform, Ethernet-enabled EM3570 DIN rail meters are designed to install easily and integrate seamlessly with existing BACnet/IP and Modbus TCP/IP networks common in today’s building and power management systems. With wide range CT compatibility, high reliability, IEC 61557-12 and UL2808 compliance, as well as ASHRAE 90.1 for power and energy logging capability, EM3570 meters support the energy efficiency designs of most buildings and are ideally suited for energy cost management applications.

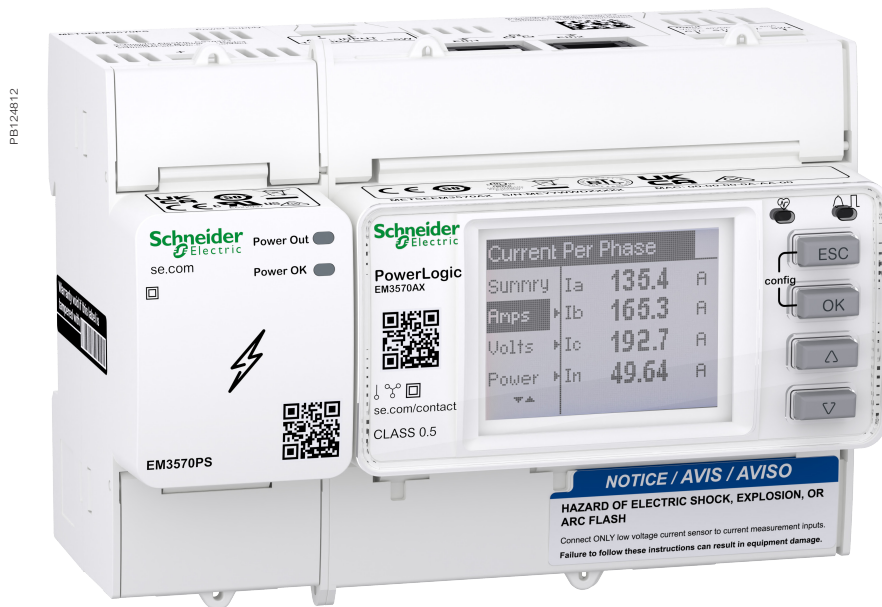
Applications

Capable of essential cost management:

- Energy monitoring in building automation systems
- Renewable energy
- Energy management
- Commercial sub-metering
- Industrial monitoring
- Cost allocation

Also ideal for electrical network management:

- Track real-time power conditions
- Monitor control functions
- Provide basic power quality values
- Extended data log feature support up to 3 years
- Analyze equipment and network status
- BACnet/IP and Ethernet TCP/IP protocol support



The solution for

Markets that can benefit from a solution that includes PowerLogic™ EM3570 series meters:

- Buildings
- Industry
- Healthcare
- Data Center and networks
- Infrastructure

Benefits

System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness

Panel builders' benefit

- Ease of installation
- Cost effectiveness
- Aesthetically pleasing
- Simplified ordering
- Externally powered with LVDC control power
- Digital inputs
- Relay output

End users' benefit

- Retrofitment in existing panel with Split core LVCT or Rogowski coil
- Ease of use
- Comprehensive, consistent and superior performance
- Maximize uptime, eliminate faults, and enhance safety
- Cybersecurity features

Competitive advantages

- Easy to install and operate
- Easy for circuit breaker monitoring and control
- 2GB memory for data logging up to 3 years with 16 parameters in 15 min interval. Flexibility of selecting parameters from 75 different parameters with option of setting the logging interval from 10 sec to 32767 sec
- Load management combined with alarm and timestamping
- High performance and accuracy
- Onboard BACnet/IP and EthernetTCP/IP protocol support
- Low voltage DC control powered for safer installation

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximize electrical network reliability and availability, and optimize electrical asset performance.

Features

- Open, robust communications
 - Ethernet protocol and daisy-chain functionality with two RJ45 connectors at 10/100 Mbps
 - Supports HTTPS, SNMP, DHCP, Modbus TCP/IP, BACnet/IP
 - Easy remote management through web/mobile devices
- Easy installation
 - DIN-mounted form factor option for easy, plug-in installation
 - Industry standard Modbus register and BACnet object list
- ASHRAE 90.1 compliant data logging
 - Two (2) GB capacity power and energy data logging in 15-minute increments over a 36 month period
 - Wide CT compatibility: LVCTs (0.333 V and 1 V), and Rogowski Coils (up to 5000 A)
- High reliability
 - IEC 61557-12 standards with capacity to measure up to 600 VAC
- Cybersecurity
 - Adheres to IEC 62443 SL1 requirements
 - California CA 2020
- BTL-certified BACnet communication
 - Conformance based on independent testing

Conformity of standards

- BS/EN/IEC 61557-12:2018/AMD1:2021
- BS/EN/IEC 61326-1: edition 3
- cULus as per UL 61010-1 edition 3
- BS/EN/IEC 61010-2-30:2017
- CE and UKCA as per IEC/BS 61010-1 edition 3
- CSA 22.2 UL 61010-1:2010/2019
- CSA 22.3 61010-2-030:2017
- BACnet/IP - BTL listed (B-ASC)
- Align with cyber security guidelines as per IEC 62443

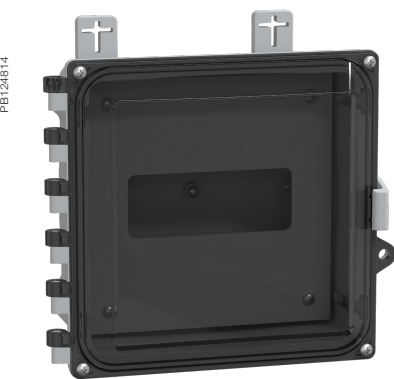
EM3570 series



EM3570 meter front ISO view



Power supply for EM3570 front ISO view



NEMA enclosure for EM3570 front ISO view

PowerLogic™ EM3570 series

The PowerLogic™ EM3570 energy meter is the ideal fit for cost management applications. Designed for use in both energy management systems and building management systems, it provides the measurement capabilities needed to allocate energy usage, perform sub-billing, pin-point energy savings, optimize equipment efficiency and utilization, and perform a high level assessment of the power quality of the electrical network.

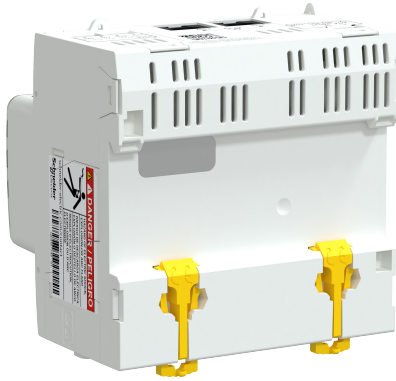
In a single DIN Rail mount five module width unit, with a graphical display, all three phases and neutral can be monitored simultaneously. The bright, anti-glare display features large characters and powerful backlighting for easy reading even in extreme lighting conditions and viewing angles. Ethernet communication ports are enriched with cyber security guidelines.

Applications

- Cost management: Cost saving opportunities become clear once you understand how and when your facility uses electricity. The PowerLogic™ EM3570 series meters are ideal for:
 - Sub-billing: Allows a landlord, property management firm, condominium association, homeowners association, or other multi-tenant property to bill tenants for individual measured utility (electricity) usage depending on the local regulations.
 - Cost allocation: Allocate energy costs between different departments (HVAC, indoor and outdoor lighting, refrigeration, etc.), different parts of an industrial process or different cost centres. Cost allocation systems can help you save money by making changes to your operation, better maintaining your equipment, taking advantage of pricing fluctuations, and managing your demand.
- Network management: Improving reliability of the electrical network is key for success in any business. Monitoring values such as voltage levels and power factor will help you to ensure proper operation and maintenance of your electrical network and equipment. PowerLogic™ EM3570 series meters are the perfect tool for:
 - Basic Power Quality monitoring: Power quality phenomena can cause undesirable effects such as heating in transformers, capacitors, motors, generators and misoperation of electronic equipment and protection devices.
 - Min/Max monitoring (with timestamp): Understanding when electrical parameters, such as voltage, current and power demand, reach maximum and minimum values that will give you the insight to correctly maintain your electrical network and assure equipment will not be damaged.
 - Alarming: alarms help you to be aware of any abnormal behaviour on the electrical network in the moment it happens.
 - Data logging: reproduce the data logging mentioned feature section
- Main characteristics
 - Easy to install
 - DIN rail mount, no tools required. Compact meter with 90 mm width, current input through LVCT or Rogowski coil, connectable up to 600 V L-L without voltage transformers for installations compliant with category III.
 - Easy to operate
 - Intuitive navigation with self-guided, selectable menus. Two LEDs on the meter face help the user confirm normal operation with a green LED - heartbeat/communications indicator, and the amber LED - customizable either for alarms or energy pulse outputs. Onboard web pages show real-time and logged information, and verify communications.
 - Easy circuit breaker monitoring and control
 - The EM3570 provides one relay output (high performance Form A type) with capability to command most of the circuit breaker coils directly. For Digital Inputs, monitored switches can be wired directly to the meter.
 - Alarms
 - Alarms can be visualized as Active (the ones that have picked up and did not drop out yet) or Historical (the ones that happened in the past). Alarms can be programmed and combined to trigger digital outputs and relay.
 - The EM3570 series keeps an alarm log with the active and historical alarms with date and time stamping. SMTP protocol for receiving alarm conditions via email and text. SNTP protocol for date/time network synchronization.

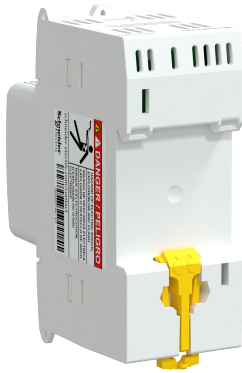
EM3570 series

PB124815



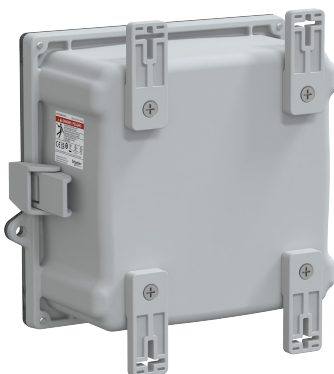
EM3570 meter rear ISO view

PB124816



Power supply for EM3570 rear ISO view

PB124817



NEMA enclosure for EM3570 rear ISO view

- High Performance and accuracy
 - IEC 61557-12 Performance measuring and monitoring devices (PMD). Defines the performance expectation based on classes. It defines the allowable error in the class for real and reactive power and energy, frequency, current, voltage, power factor, as well as ratings for temperature, relative humidity, altitude, start-up current and safety. It makes compliant meters readings comparable - they will measure the same values when connected to the same load.
- NEMA Enclosure
 - METSEEM3570ENC enclosure offers a mounting option for EM3570 DIN Ethernet Meters with NEMA 4x level protection from the elements. The enclosure is equipped with DIN rail mounting hardware for convenient installation and a swing panel kit for electrical protection.
 - NEMA 4x level protection - weather-proofing and durability
 - Clear front panel - maximum visibility
 - Swing panel kit - clean and pleasing look
- Power Supply
 - The METSEEM3570PS Power Supply provides 24 Vdc, 0.3 A output control power to the EM3570 series power and energy meter. The power supply supports the same voltage range as the EM3570 meter.
 - Wide input range: 90 to 600 Vac (600V LL/347V LN) or 125 to 300 Vdc

Native multi-protocol support

The EM3570 series is easy to integrate into new and existing BMS systems. With native BACnet/IP protocol support, meters can simultaneously communicate via BACnet and Modbus in applications where multiple software systems are used (building management and energy management systems).

The EM3570 series has been tested and certified in accordance with BACnet Testing Laboratories (BTL) requirements.

- EM3570 series metering:
 - Power Quality analysis
 - The EM3570 offers Total Demand
- Load management
 - Peak demands with time stamping are provided. Predicted demand values can be used in combination with alarms for basic load shedding applications.
- Alarming with time stamping
 - A different combination of set point and drop point driven alarms from array of 17 different alarm

	EM3570 series
Set point driven alarms	17
Custom defined	b

EM3570 series

EM3570 Series Feature Selection

	METSEEM3570	METSEEM3570A	METSEEM3570X	METSEEM3570AX
Installation				
Fast installation, DIN rail mount with integrated display	b	b	b	b
Accuracy				
Class	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S
Display				
Backlit LCD, multilingual, 4 lines, 4 concurrent values	b	b	b	b
Power and energy metering				
3-ph voltage, current, power, demand, energy, frequency, power factor	b	b	b	b
Multi-tariff	4	4	4	4
I/Os and relays				
Digital inputs	2	2	2	2
Relay output	1	1	1	1
Alarms and control				
Alarms	17	17	17	17
Set point response time, seconds	1	1	1	1
Single and multi-condition alarms	b	b	b	b
Memory for data logging	2 GB	2 GB	2 GB	2 GB
Communications				
Ethernet port with Modbus TCP protocol	b	b	b	b
BACnet/IP protocol	b	b	b	b
Onboard web server with web pages	b	b	b	b

EM3570 Commercial References

Comm. ref numbers	Description
METSEEM3570	DIN Ethernet power meter, LVCT input with external Power Supply module
METSEEM3570A	DIN Ethernet power meter, Rogowski coil input with external Power Supply module
METSEEM3570X	DIN Ethernet power meter, LVCT input without external Power Supply module
METSEEM3570AX	DIN Ethernet power meter, Rogowski coil input without external Power Supply module
METSEEM3570PS	24V DC Power Supply Module for DIN Ethernet meter 600V AC input
METSEEM3570ENC	NEMA enclosure accessory for Din Ethernet meter METSEEM35x Schneider brand

Please contact your Schneider Electric representative for complete ordering information.

EM3570 series

EM3570 Series Technical Specifications

	METSEEM3570	METSEEM3570A	METSEEM3570X	METSEEM3570AX
Use on LV systems			b	
Basic metering with min/max readings			b	
Instantaneous rms values				
Current			b	
Voltage			b	
Frequency			b	
Real, reactive, and apparent power			b	
True Power Factor			Signed, Four Quadrant	
Displacement PF			b	
V L-N, V L-L			b	
Calculated neutral current			b	
Energy values				
Accumulated Active, Reactive and Apparent Energy			Received/Delivered	
Demand value				
Current average			Present, Last, Peak, and Peak Date Time	
Active power			Present, Last, Peak, and Peak Date Time	
Reactive power			Present, Last, Peak, and Peak Date Time	
Apparent power			Present, Last, Peak, and Peak Date Time	
Peak demand with timestamping D/T for current and three powers			b	
Demand calculation method	Sliding, fixed and rolling block		b	
Synchronisation of the measurement window to input, communication command or internal clock			b	
Settable Demand intervals			b	
Other measurements				
I/O timer			b	
Operating timer			b	
Alarm counters and alarm logs			b	
Power quality measurements				
Calculated Neutral current			b	
samples/cycle			32	
Data recording				
Min/max of instantaneous values, plus phase identification ⁽⁺¹⁾			b	
Alarms with 1s timestamping ⁽⁺¹⁾			b	
Data logging	2GB memory up to 3 years with 16 parameters in 15 min interval. Flexibility of selecting parameters from 75 different parameters with option of setting the logging interval from 10 s to 32767 s			
Min/max log			b	
Maintenance, alarm and event logs			b	
Customisable data logs			b	
RTC with battery back up	3 years (when meter is in Power OFF condition)			
Display resolution	5 digits for Energy and other parameters with auto scaling			

EM3570 series

EM3570 Series Technical Specifications (Contd.)

		METSEEM3570	METSEEM3570A	METSEEM3570X	METSEEM3570AX
Inputs/Outputs/Mechanical Relays					
Digital inputs		2	2	2	2
Form A Relay (SPST) output		1	1	1	1
Timestamp resolution in seconds		1	1	1	1
Type of measurement: True rms on three-phase (3P, 3P + N)		b			
		METSEEM3570	METSEEM3570A	METSEEM3570X	METSEEM3570AX
Measurement accuracy	IEC 61557-12	PMD/[SD]/[SS]/K70/0.5			
	Active Energy	Class 0.5 as per BS/EN/IEC 61557-12			
	Reactive Energy	Class 2.0 as per BS/EN/IEC 61557-12			
	Active Power	Class 0.5 as per BS/EN/IEC 61557-12			
	Apparent Power	Class 0.5 as per BS/EN/IEC 61557-12			
	Reactive Power	Class 2.0 as per BS/EN/IEC 61557-12			
	Current, Phase	Class 0.5 as per BS/EN/IEC 61557-12			
	Voltage, L-N	Class 0.5 as per BS/EN/IEC 61557-12			
	Frequency	Class 0.5 as per BS/EN/IEC 61557-12			
	Power Factor	Class 0.5 as per IEC 61557-12/±0.005 count			
	Calculated neutral current	Class 0.5 as per IEC 61557-12			
Input-voltage (up to 1.0 MV AC max, with voltage transformer)	Nominal Measured Voltage range	90 V L-N/156 V L-L to 347 V L-N/600 V L-L			
	Impedance	5 MΩ			
	Frequency nominal	50 Hz/60 Hz ± 10%			
Input-current (configurable for 0.333 V or 1 V secondary CTs)	I nominal	0.333 V (0.4 V max) or 1 V nominal (1.1 V max)			
	Measured Amps with over range	0.00333-0.4 V			
	Frequency nominal	50 Hz/60 Hz ± 10%			
DC control power	Operating range	12...36 V DC ±20 %			
	Burden	< 5 W			
Outputs	Relay outputs	Max output frequency	0.5 Hz maximum (1 s ON/1 s OFF - min times)		
		Switching current, at resistive load	5 A @250 V AC and 5 A @30 Vdc		
		Isolation	2.5 kV rms		
Status inputs	ON Voltage		11...40 Vdc		
	OFF Voltage		0...5 Vdc		
	Minimum pulse width		10 ms		
	Opto Isolation		3.75 kVRMS		
Mechanical characteristics					
IP degree of protection (IEC 60529)		IP40 front display, IP20 body			
Dimensions W x H x D	Meter		90 x 91.4 x 70.6 mm		
	Power Supply (optional)		36 x 91.4 x 67.6 mm		
	NEMA enclosure (optional approx.)		271 x 277 x 135 mm		
Mounting position		Meter and power supply - Vertical DIN rail mount NEMA enclosure (optional) - Projection type			

EM3570 series

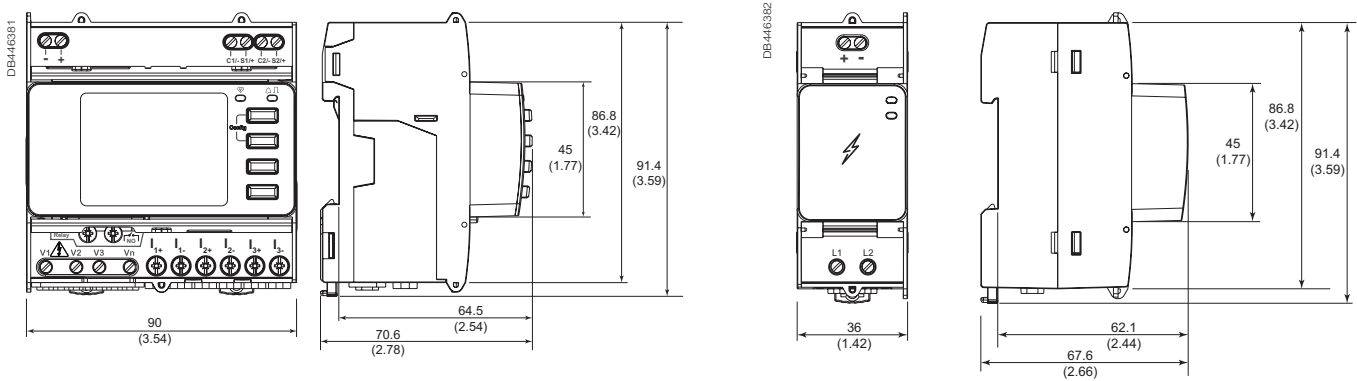
EM3570 Series Technical Specifications (Contd.)

		METSEEM3570	METSEEM3570A	METSEEM3570X	METSEEM3570AX
Environmental characteristics					
Operating temperature	Operating temperature	-25...70 °C			
	Display (reduced display performance at -25 °C)	-25...70 °C			
Storage temperature		-40...85 °C			
Humidity range		5...95 % RH at 50 °C (non-condensing)			
Pollution degree		2			
Altitude		≤ 3000 m (9842 ft) above sea level			
Mission profile / Life span		15 years, 45 °C (113 °F) 60% RH, refer Mission Profile document			
Protective treatment		Conformal coating			
Safety					
Europe		CE/UKCA as per BS/EN/IEC 61557-12, BS/EN/IEC 61326-1, BS/EN/IEC 61010-1, BS/EN/IEC 61010-2-30			
U.S. and Canada		UL/EN 61010-1, UL/EN 61010-2-030			
Measurement category (Voltage & Current inputs)		CAT III up to 400 V L-N/690 V L-L			
Dielectric		As per IEC/UL 61010-1 (Edition 3)			
Protective Class		II, Double insulated for user accessible parts			
Communication					
Ethernet Port speed		100 Mbps = Green/10 Mbps = Off			
Protocol		BACnet/ IP and Ethernet TCP/IP			
FTPS		Yes			
SNMP, SNTP		Yes			
HTTPS		Yes			
Firmware and language file update		Yes			
Isolation		2.5 kVRMS, double insulated			
Human machine interface					
Display type		Monochrome Graphics LCD			
Resolution		126 x 94 pixels			
Backlight		White LED			
Keypad		4-button			
Indicator Heartbeat / Communication activity		Green LED			
Energy pulse output / Active alarm (configurable)		Orange LED			
Wavelength		590...635 Nm			
Maximum pulse rate		2.5 kHz			

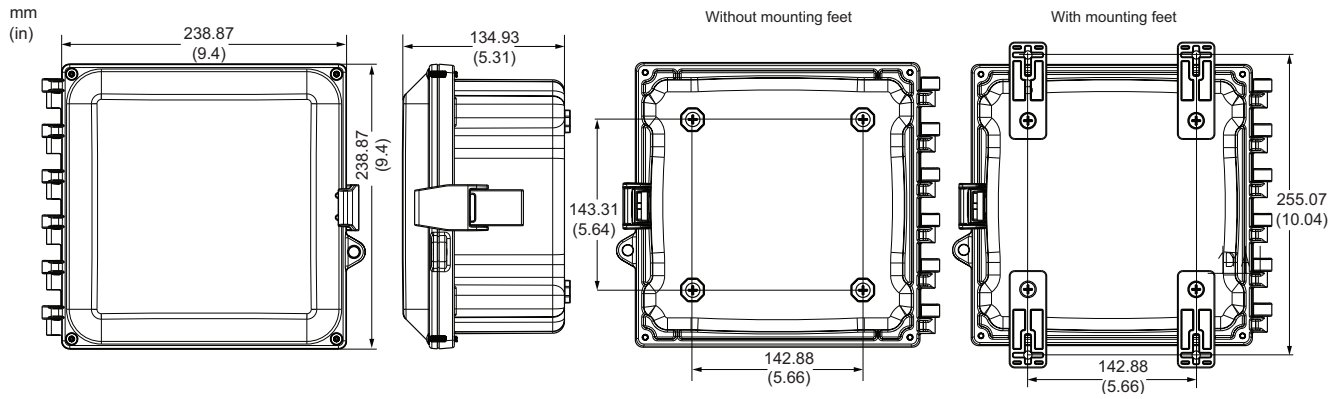
EM3570 series

Note: The dimensions are in mm (in).

EM3570 Meter Dimensions

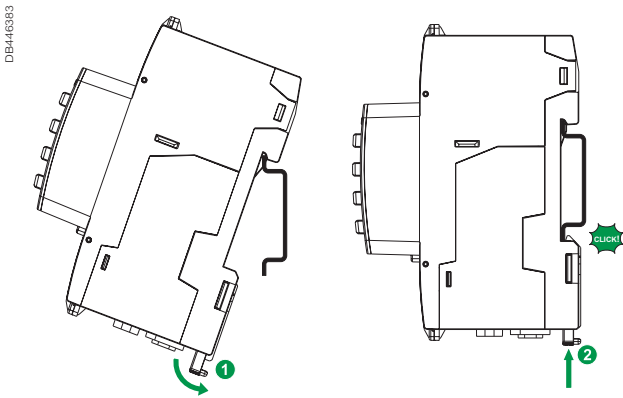


EM3570 Enclosure Dimensions

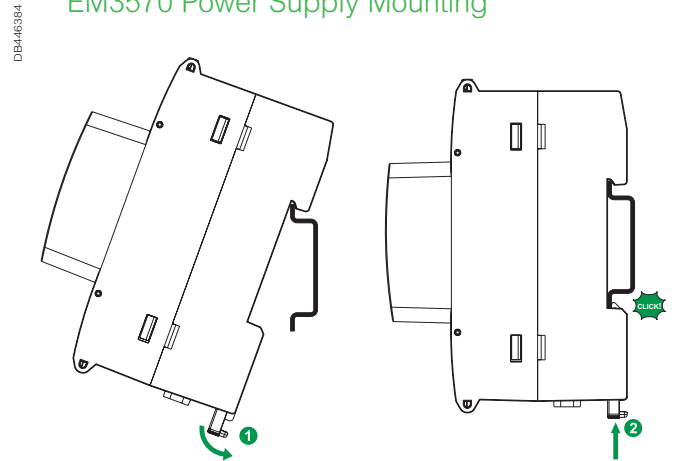


EM3570 series

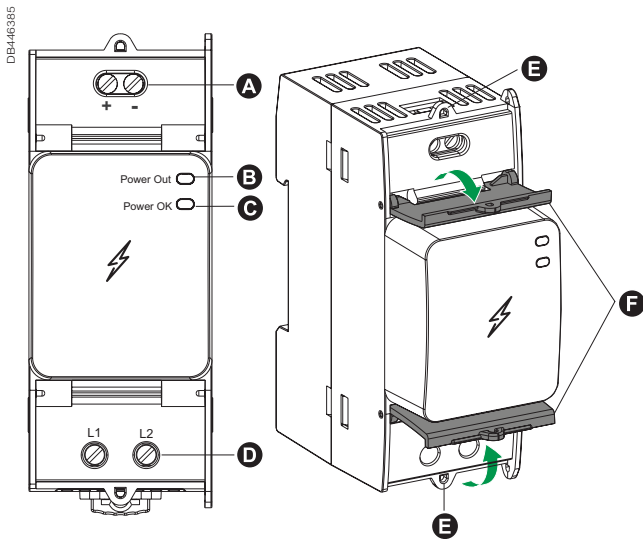
EM3570 Meter Mounting



EM3570 Power Supply Mounting



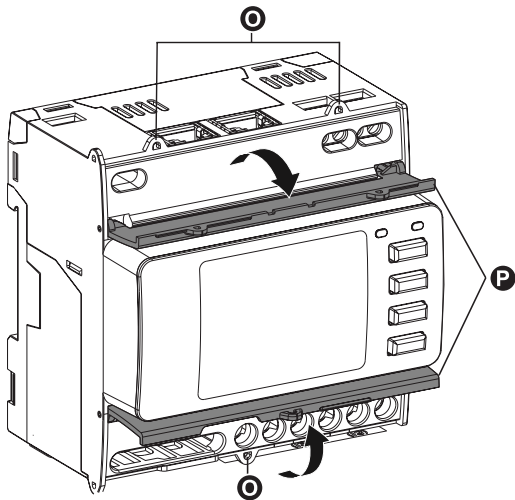
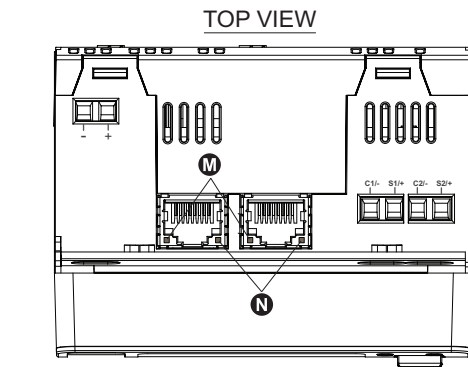
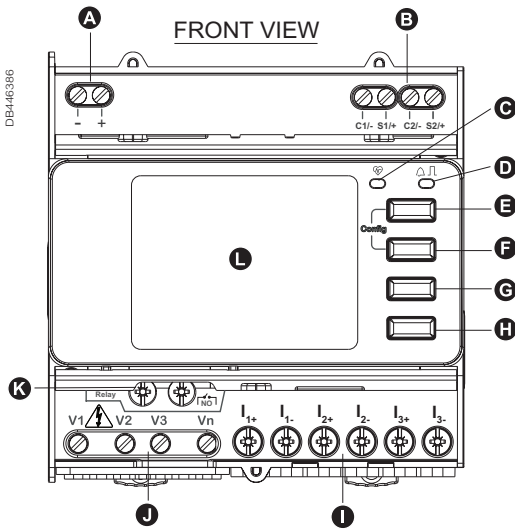
EM3570 Power Supply Description



- A** 24 Vdc Output (+,-)
- B** Power Out status LED
- C** Power OK status LED
- D** Input L1, L2
- E** Sealing points
- F** Sealable covers

EM3570 series

EM3570 Meter Description



- Ⓐ Control power input 24 Vdc(-, +)
- Ⓑ Status inputs (C1/-, S1/+, C2/-, S2/+)
- Ⓒ Operation LED (Green)
- Ⓓ Alarm / Energy pulse LED (Orange)
- Ⓔ Cancellation button
- Ⓕ Confirmation button
- Ⓖ Up button
- Ⓗ Down button
- Ⓘ Current inputs (I_{1+} , I_{1-} , I_{2+} , I_{2-} , I_{3+} , I_{3-})
- ⓵ Voltage inputs (V1, V2, V3, Vn)
- Ⓚ Relay output (NO (\overline{NO}))
- Ⓛ Display with white backlight
- Ⓜ Ethernet port link/Activity LED (Green)
- Ⓝ Ethernet port Speed LED (Green)
(100 Mbps=Green / 10 Mbps=Off)
- Ⓞ Three sealing points
- Ⓟ Two sealable covers

PowerLogic™ EM3000 Series Technical Datasheet

The PowerLogic™ EM3000 series energy meters is a cost-attractive, feature-rich energy metering offer for DIN rail, modular enclosures. With Modbus and protocol support, you can easily integrate these meters into commercial and non-critical buildings to add simple energy management applications to any BMS, AMR or EMS system.

Applications

Cost management applications

- Bill checking to verify that you are only charged for the energy you use.
- Sub-billing individual tenants for their active energy consumption.
- Aggregation of energy consumption.

Network management applications

- Basic metering of electrical parameters to better understand the behaviour of your electrical distribution system.



PB125611



METSEEM3122



PB125612



METSEEM3322



PB125613



METSEEM3712

The solution for

All markets that can benefit from a solution that includes PowerLogic™ EM3000 series meters:

- Buildings & industry
- Data centres and networks
- Infrastructure

Benefits

Optimise your energy consumption & enable energy efficiency practices:

- Collect and analyse energy consumption data from each area for each type of load or circuit
- Gain an accurate understanding of business expenses by allocating the energy-related costs
- Identify energy savings opportunities and monitor continuously
- Use information to implement actions designed to reduce energy consumption

Monitor the energy consumption of your tenants or customers and establish accurate invoices:

- Drive energy-efficient behaviour
- Allow building owners to bill tenants for individual measured utility usage
- Give accurate and achievable objectives for energy savings

Features

- Multi-line circuit: Measure individual phase energy in three phase network system
- Partial and Total energy: Separate counters for measuring active energy
- Current: Direct connected or whole current with the option of 45 A/63 A/100 A/125 A, 1 A or 5 A CT operated
- Internal clock: Quartz crystal based back up by super capacitor

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Competitive advantages

- Compact size
- MID compliant for Wh (selected models) providing certified accuracy and data security
- Onboard Modbus communication
- Configurable Baud Rate
- Communication protection: enable or disable through communication
- A complete range of energy meters
- Compatible with Power Logic range
- Direct connect upto 125 A
- Password: configurable from 0-9999*
- Pulse output*: configurable pulse constant (imp/kWh), pulse width (ms)

Conformity of standards*

- BS /EN/IEC61557-12:2021
- BS/EN/IEC 61326-1
- BS/EN/IEC 62052-11:2020
- BS/EN/IEC 62053-21
- BS/EN/IEC62052-31:2015
- BS/EN/IEC 61010-1:2010
- UL 61010-1:2010
- BS/EN/IEC 61010-2-30
- UL 61010-2-30
- BS/EN 50470-3
- BS/EN 50470-1
- ANSI C12.16
- ANSI C12.20
- CE, UL and UKCA certified

* Available in selected references

PowerLogic™ EM3000 Series

Feature selection

Current Input/ Wh Accuracy	EM3000 series Energy meters		
45 A Direct/ Class 1	EM3122		
63 A Direct/ Class 1		EM3212	EM3224
1 A or 5 A CT/ Class 0.5S /Class 1		EM3712	EM3724
100 A Direct/ Class 1	EM3322		
125 A Direct/ Class 1		EM3412	EM3424
Communication Protocol			
Non-Communication		✓	
MODBUS	✓		✓
Measurement (Intergrated)			
Active energy - Total and Partial energy	✓	✓	✓
2 Quadrant Active	✓	✓	✓
MID compliant (Wh)			✓
Digital outputs			
Pulse output only		✓	
Internal clock			
Quartz crystal based			✓
Date/time format (DD-MMM-YYYY/hh:mm)			✓
Commercial reference			
Commercial References/ordering references	METSEEM3122 METSEEM3322	METSEEM3212 METSEEM3712 METSEEM3412	METSEEM3224 METSEEM3724 METSEEM3424

Measurement accuracy

		As per EN / IEC 62053-21/22/23	As per BS / EN / IEC 61557-12	As per EN 50470-3	Current range of operation
EM31xx	Active Energy	Class 1 (IEC 62053-21)	Class 1 (PMD DD)		I _{max} =45 A, I _{ref} =10 A, I _{min} =0.5 A, and I _{st} =0.04 A
EM32xx	Active Energy	Class 1 (IEC 62053-21)	Class 1 (PMD DD)	Class B (Select model)	I _{max} =63 A, I _{ref} =10 A, I _{min} =0.5 A, and I _{st} =0.04 A
EM33xx	Active Energy	Class 1 (IEC 62053-21)	Class 1 (PMD DD)		I _{max} =100 A, I _{ref} =20 A, I _{min} =1 A, and I _{st} =0.08 A
EM34xx	Active Energy	Class 1 (IEC 62053-21)	Class 1 (PMD DD)	Class B (Select model)	I _{max} =125 A, I _{ref} =20 A, I _{min} =1 A, and I _{st} =0.08 A
EM37xx (x/1 A Current input)	Active Energy	Class 1 (IEC 62053-21)	Class 1 (PMD SD, PMD Sx)	Class B (Select model)	I _{max} =1.2 A, I _{nom} =1 A, and I _{st} =0.002 A
EM37xx (x/5 A Current input)	Active Energy	Class 0.5S (IEC 62053-22)	Class 0.5S (PMD SD, PMD Sx)	Class C (Select model)	I _{max} =6 A, I _{nom} =5 A, and I _{st} =0.005 A

See your Schneider Electric representative for complete ordering information.

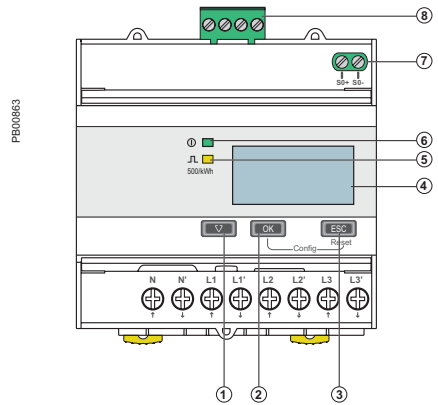
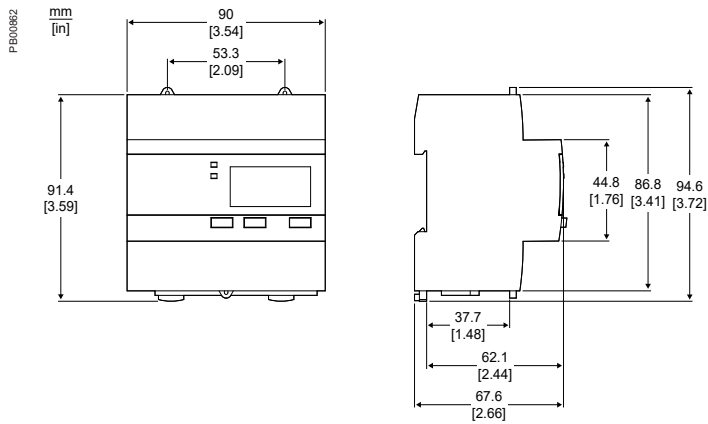
PowerLogic™ EM3000 Series

Technical Specifications

	EM3122	EM3212/EM3224	EM3322	EM3412/EM3424	EM3712/EM3724	
Width in mm x number of modules	18 mm x 5		18 mm x 7		18 mm x 5	
Wiring type (scheme)	3PH3W, 3PH4W, 1PH2W L-N, 1PH2W L-L, 1PH3W L-L-N					
Operating Temperature	-25...70 °C (-13...158 °F)					
Storage temperature	-40...85 °C (-40...185 °F)					
Wiring capacity	16 mm ²	50 mm ²			6 mm ² for I and 4 mm ² for V	
LCD display	99999999.9 kWh				99999999.9 kWh / MWh	
IP Protection	IP40 front, IP20 casing					
Over voltage and measurement	Category III, Pollution Degree 2					
Control Power/Self Powered Meter	Self Powered Meter					
Operating Voltage	3 x 100/173 Vac to 3 x 277/480 Vac (50/60 Hz)					
Altitude	< 3000 m (9842 ft)					
Humidity	5%–95%					
Voltage inputs	Measured voltage	Wye: 100 - 277 V L-N, 173 - 480 V L-L ±20% Delta: 173 - 480 V L-L ±20%				
	Overload	332 V L-N or 575 V L-L				
	Impedance	3 MΩ	6 MΩ		3 MΩ	
	Frequency	50/60 Hz ±10%				
	Measurement category	III				
	Maximum device consumption	< 10 VA at 45 A	< 10 VA at 63 A	< 10 VA at 100 A	< 10 VA at 125 A	< 10 VA at 125 A
	Wire	16mm ² / 6 AWG		50 mm ² / 1 AWG		2.5 mm ² / 14 AWG
Current inputs	Nominal current (In)	10 A	10 A	20 A	20 A	5 A 1A
	Measured current (I)	0.5...45 A	0.5...63 A	1...100 A	1...125 A	50 mA...6 A (for In:5 A) 10 mA...1.2 A (for In:1 A)
	Maximum Current (Imax)	45 A	63 A	100 A	125 A	6 A (for In:5 A) 1.2 A (for In:1 A)
	Withstand	45 A continuous, 114 A at 10 sec/hr	63 A continuous, 160 A at 10 sec/hr	100 A continuous, 256 A at 10 sec/hr	125 A continuous, 320 A at 10 sec/hr	20 A continuous (for In: 5 A), 10 A continuous (for In: 1A) at 10 sec/hr
	Frequency	50/60 Hz ±10%				

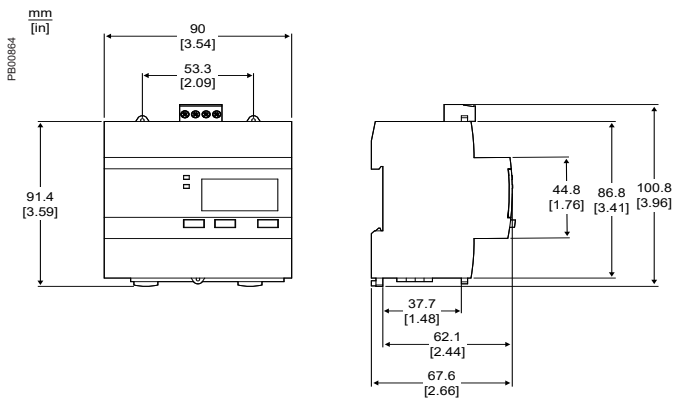
PowerLogic™ EM3000 Series dimensions

EM3122/EM3212/EM3224 series dimensions

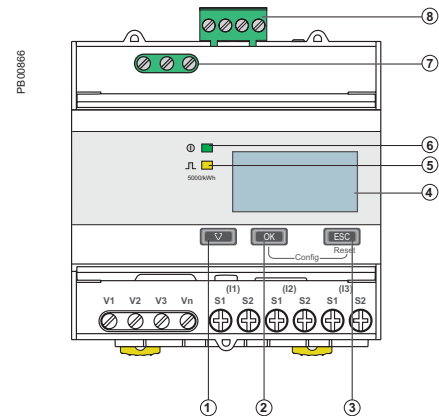
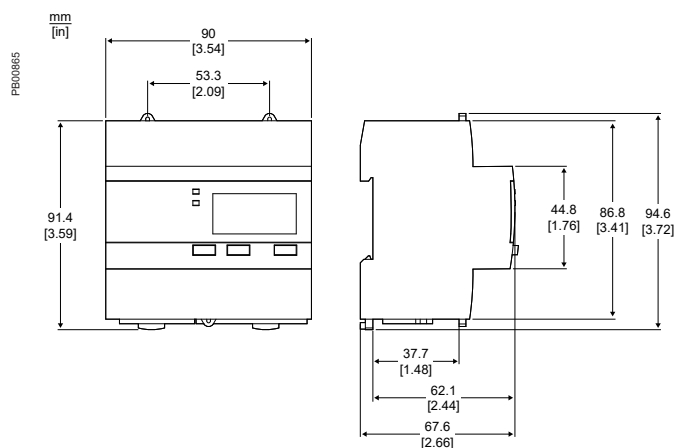


Power Logic EM3122/EM3212/EM3224 Series parts

1. Selection
2. Confirmation
3. Cancellation
4. Display for measurement and configuration
5. Flashing yellow meter indicator to check accuracy
6. Green indicator: on/off, error
7. Pulse out for remote transfer (EM3212)
8. RS485 Communication (EM3122/EM3224)



EM3712 series dimensions



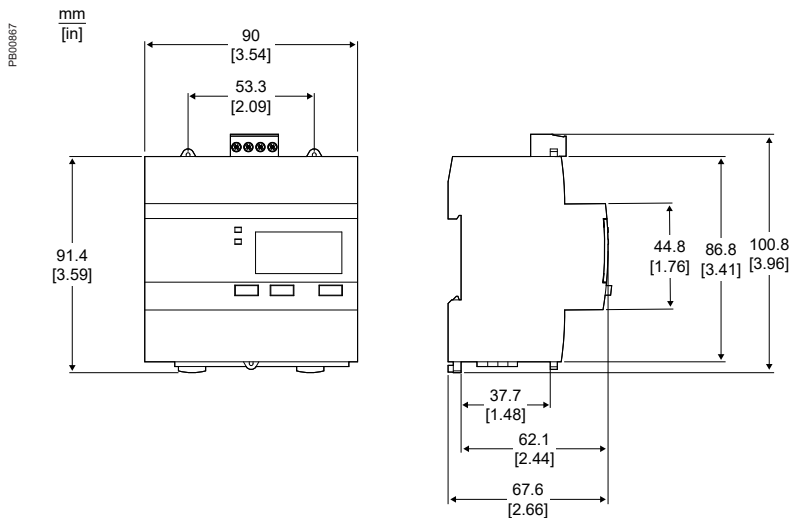
Power Logic EM3712/EM3724 Series parts

1. Selection
2. Confirmation
3. Cancellation
4. Display for measurement and configuration
5. Flashing yellow meter indicator to check accuracy
6. Green indicator: on/off, error
7. Pulse Output(EM3712)
8. RS485 Communication (EM3724)

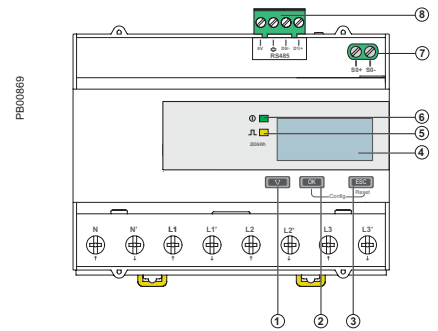
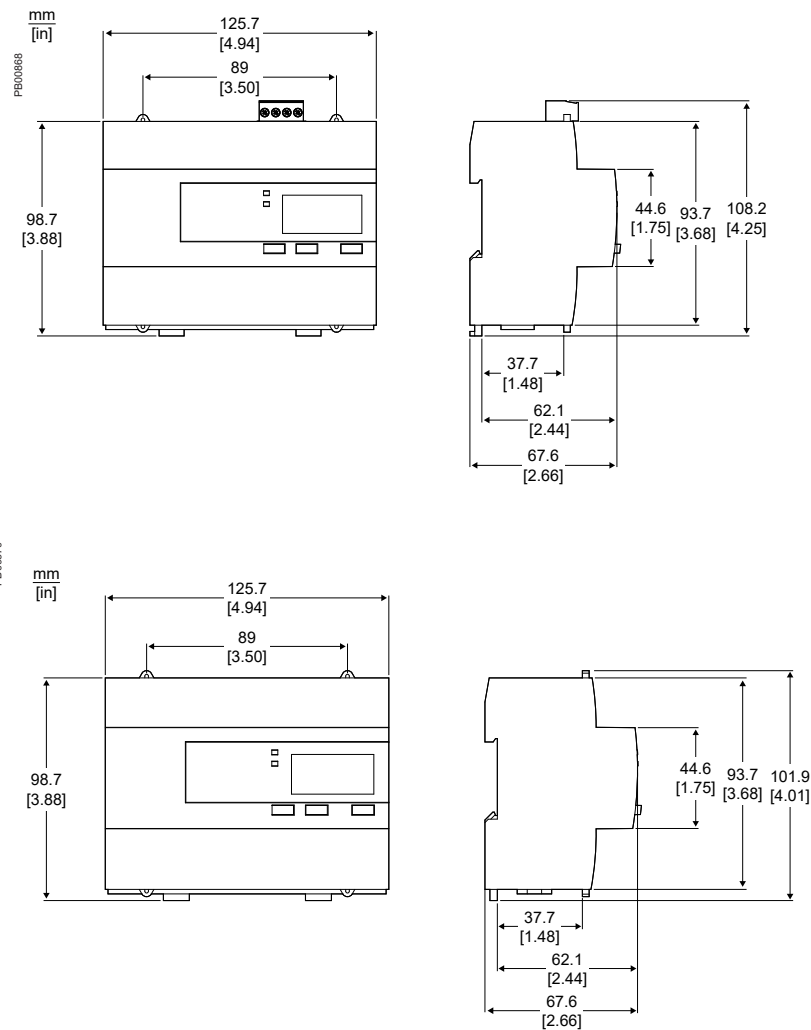
Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.

PowerLogic™ EM3000 Series dimensions

EM3724 series dimensions



EM3322/EM3412/EM3424series dimensions



Power Logic EM3322/EM3412/EM3424 Series parts

1. Selection
2. Confirmation
3. Cancellation
4. Display for measurement and configuration
5. Flashing yellow meter indicator to check accuracy
6. Green indicator: on/off, error
7. Pulse Output for remote transfer
8. RS485 Communication

Please see the appropriate **Installation Guide** for accurate and complete information on the installation of this product.

Acti 9 iEM3000 Series Technical Datasheet

The Acti 9 iEM3000 series energy meters is a cost-attractive, feature-rich energy metering offer for DIN rail, modular enclosures. With Modbus, BACnet, M-Bus and LonWorks protocol support, you can easily integrate these meters into commercial and non-critical buildings to add simple energy management applications to any BMS, AMR or EMS system.

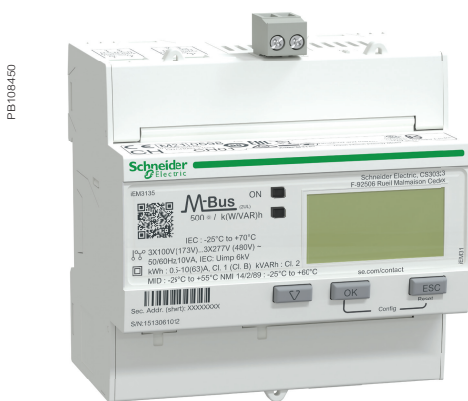
Applications

Cost management applications

- Bill checking to verify that you are only charged for the energy you use.
- Sub-billing individual tenants for their energy consumption, including WAGES.
- Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility.

Network management applications

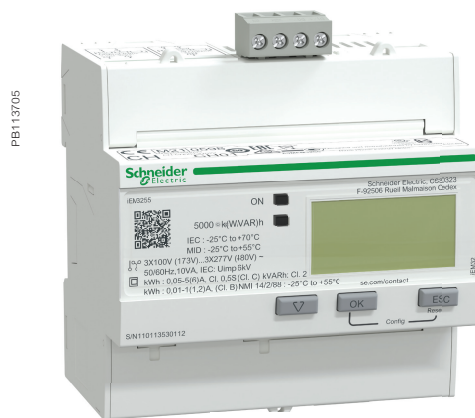
- Basic metering of electrical parameters to better understand the behaviour of your electrical distribution system.



A9MEM3135



A9MEM3355



A9MEM3255

More than just kWh meters, the Acti 9 iEM3000 series meters provide a full view of both energy consumption and on-site generation with full four-quadrant measurement of active and reactive energy delivered and received. Additionally, extensive real-time measurements (V, I, P, PF) give customers greater detail on their energy usage, and multiple tariffs give customers the flexibility to match the billing structure of their utility.

The solution for

All markets that can benefit from a solution that includes PowerLogic™ iEM3000 series meters:

- Buildings & industry
- Data centres and networks
- Infrastructure (airports, road tunnels, telecom)

Benefits

Optimise your energy consumption & enable energy efficiency practices:

- Collect and analyse energy consumption data from each area for each type of load or circuit
- Gain an accurate understanding of business expenses by allocating the energy-related costs
- Identify energy savings opportunities and monitor continuously
- Use information to implement actions designed to reduce energy consumption

Monitor the energy consumption of your tenants or customers and establish accurate invoices:

- Drive energy-efficient behaviour
- Allow building owners to bill tenants for individual measured utility usage
- Give accurate and achievable objectives for energy savings

Features

- Multi-line circuit: Measure individual phase energy in three phase network system
- Partial and Total energy: Separate counters for measuring active, reactive and apparent energy
- 4 Quadrant measurement: For measuring quadrant based power and energy
- Multi tariff energy: Upto 4 counters activated through RTC, digital inputs or command register
- Digital input/output: For status monitoring/tariff control and energy pulsing/overload alarm
- Demand measurement: Per-phase and average current, total power for active, reactive and apparent
- Current: Direct connected/ whole current with the option of 63 A or 125 A, 1 A or 5 A CT operated, LVCT or Rogowski coil supported
- Internal clock: Quartz crystal based back up by super capacitor

Competitive advantages

- Compact size
- MID compliant for Wh and VARh (selected models) providing certified accuracy and data security
- Programmable digital inputs/outputs
- Multi-tariff capability
- Onboard Modbus, LonWorks, M-Bus or BACnet communication*
- Baud Rate configurable
- Communication protection: enable or disable through communication
- A complete range of energy meters
- Compatible with Acti 9 range
- Direct connect upto 125 A
- Password: configurable from 0-9999*
- Pulse output*: configurable pulse constant (imp/kWh, imp/kVARh), pulse width (ms)

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Conformity of standards*

- BS / EN / IEC 61557-12
- EN / IEC 62053-21
- EN / IEC 62053-22
- EN / IEC 62053-23
- EN 50470-3
- EN 50470-1
- METAS
- EN / IEC 62052-11
- BS / EN / IEC 61326-1
- EN / IEC 62052-31:2015
- BS / IEC / EN / UL 61010-1
- ANSI C12.20 / ANSI C12.16
- NMI M 6-1, RCM
- UL, CE and UKCA certified
- CAN/CSA-C22.2
- EAC, KZ

* Available in selected references

Acti 9 iEM3000 Series

Feature selection

Current Input/ Wh Accuracy	iEM3000 series Energy meters						
63 A Direct/ Class 1	iEM3115	iEM3110	iEM3135	iEM3150	iEM3155	iEM3165	iEM3175
1 A or 5 A CT/ Class 0.5S ⁽⁺¹⁾	iEM3215	iEM3210	iEM3235	iEM3250	iEM3255	iEM3265	iEM3275
125 A Direct/ Class 1		iEM3310	iEM3335	iEM3350	iEM3355	iEM3365	iEM3375
1/3rd or 1 V LVCT/ Class 0.5S					iEM3455	iEM3465	
Rogowski coil/ Class 0.5S					iEM3555	iEM3565	
Communication Protocol							
Modbus				■	■		
M-Bus			■				
BACnet						■	
LonWorks							■
Measurement (Intergrated)							
Active energy - Total and Partial energy	■	■	■	■	■	■	■
4 Quadrant Active, Reactive energy and Apparent energy			■		■	■	■
MID compliant (Wh) ⁽⁺²⁾ MID compliant (VARh) ⁽⁺²⁾	■	■	■		■	■	■
Demand (per-ph & average current, total power for P Q S) ⁽⁺³⁾					■	■	
Peak Demand (per-ph & average current, total power for P Q S) ⁽⁺³⁾					■	■	
Measurement (Instantaneous)							
Voltage			■	■	■	■	■
Current			■	■	■	■	■
Power - P Q S			■	■	■	■	■
Power factor			■	■	■	■	■
Frequency			■	■	■	■	■
Multi-Tariff, control by							
Internal clock	4		4		4	4	4
Digital Inputs	4		2		2	2	2
Communication	-		4		4	4	4
Digital inputs							
For Status, Tariff control or Input monitoring			1		1	1	1
Tariff control only	2						
Digital outputs							
Energy pulsing or Overload alarm			1		1	1	
Pulse output only		1					
Internal clock							
Quartz crystal based	■		■		■	■	■
Date/time format (DD-MMM-YYYY/hh:mm)	■		■		■	■	■
Commercial reference							
Commercial References/ordering references	A9MEM3115 A9MEM3215	A9MEM3110 A9MEM3210 A9MEM3310	A9MEM3135 A9MEM3235 A9MEM3335	A9MEM3150 A9MEM3250 A9MEM3350	A9MEM3155 A9MEM3255 A9MEM3355 A9MEM3455 A9MEM3555	A9MEM3165 A9MEM3265 A9MEM3365 A9MEM3465 A9MEM3565	A9MEM3175 A9MEM3275 A9MEM3375

⁽⁺¹⁾ MID certification available for x/5 A and x/1 A.

⁽⁺²⁾ MID certification not applicable for iEM34xx and iEM35xx series.

⁽⁺³⁾ Demand parameters available in iEM34xx and iEM35xx series only.

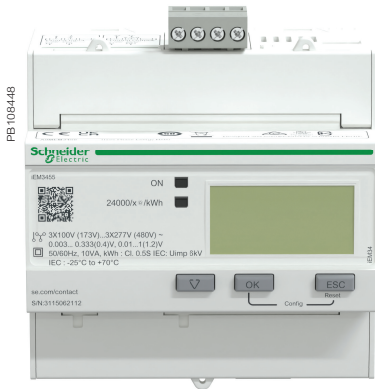
See your Schneider Electric representative for complete ordering information.

Acti 9 iEM3000 Series

Technical Specifications

	iEM31xx	iEM32xx	iEM33xx	iEM34xx	iEM35xx	
Width in mm x number of modules	18 mm x 5	18 mm x 5	18 mm x 7	18 mm x 5	18 mm x 5	
Wiring type (scheme)	3PH3W, 3PH4W, 1PH2W L-N, 1PH2W L-L, 1PH3W L-L-N					
Operating Temperature	-25°C to 70°C (-13 °F to 158 °F)					
Storage temperature	-40 °C to 85 °C (-40 °F to 185 °F)					
Wiring capacity	16 mm ²	6 mm ² for I and 4 mm ² for V	50 mm ²	6 mm ² for I and 4 mm ² for V		
LCD display	99999999.9 kWh	99999999.9 kWh / MWh	99999999.9 kWh	99999999.9 kWh / MWh		
IP Protection	IP40 front, IP20 casing					
Over voltage and measurement	Category III, Pollution Degree 2					
Operating Voltage	3 x 100/173 V AC to 3 x 277/480 V AC (50/60 Hz)					
Operating Current	0.5 A to 63 A	Inom 5 A: 50 mA to 6 A Inom 1 A: 10 mA to 1.2 A	1 A to 125 A	0.022 V to 0.4 V (0.333 V Inom) or 0.05 V to 1.2 V (1 V Inom) LVCTs	50 to 5000 A Rogowski Coil	
Altitude	< 3000 m (9842 ft)					
Humidity	5% – 95%					
Voltage inputs	Measured voltage	Wye: 100 - 277 V L-N, 173 - 480 V L-L ±20% Delta: 173 - 480 V L-L ±20%				
	Overload	332 V L-N or 575 V L-L				
	Impedance	3 MΩ	3 MΩ	6 MΩ	3 MΩ	
	Frequency	50 / 60 Hz ±10%				
	Measurement category	III				
	Minimum wire temperature rating required	90 °C (194 °F)	90 °C (194 °F)	105 °C (221 °F)	90 °C (194 °F)	
	Maximum device consumption	-	< 10 VA	-	< 10 VA	
	Wire	16 mm ² / 6 AWG	2.5 mm ² / 14 AWG	50 mm ² / 1 AWG	2.5 mm ² / 14 AWG	
	Wire strip length	11 mm / 0.43 in	8 mm / 0.31 in	13 mm / 0.5 in	8 mm / 0.31 in	
	Torque	1.8 Nm / 15.9 in•lb	0.5 Nm / 4.4 in•lb	3.5 Nm / 30.9 in•lb	0.5 Nm / 4.4 in•lb	
Current inputs	Nominal current	-	1 A or 5 A	-	-	
	Measured current	0.5 A to 63 A	20 mA to 6 A	1 A to 125 A	-	
	Withstand	10 A continuous, 20 A at 10 sec/hr			-	-
	Minimum wire temperature rating required	-	90 °C (194 °F)	-	90 °C (194 °F)	
	Impedance	< 0.3 mΩ	< 1 mΩ	< 0.2 mΩ	-	-
	Frequency	50 / 60 Hz ±10%				
	Burden	< 10 VA at 63 A	< 0.036 VA at 6 A	< 10 VA at 125 A	-	-
	Wire	16 mm ² / 6 AWG	6 mm ² / 10 AWG	50 mm ² / 1 AWG	6 mm ² / 10 AWG	
	Wire strip length	11 mm / 0.43 in	8 mm / 0.31 in	13 mm / 0.5 in	8 mm / 0.31 in	
	Torque	1.8 Nm / 15.9 in•lb	0.8 Nm / 7.0 in•lb	3.5 Nm / 30.9 in•lb	0.8 Nm / 7.0 in•lb	
	Split-core LVCTs	-	-	-	0.333 V or 1 V nominal	
	Rogowski Coil	-	-	-	U018 Series of Rogowski Coils (up to 5000 A)	
Minimum wire temperature rating required	-	-	-	90 °C (194 °F)		

Acti 9 iEM3000 Series



A9MEM3455



LVCT00102S



A9MEM3565



METSECTR25500

Recommended* Schneider make Split-core LVCT for iEM3455 and iEM3465

Part Number	Sensing Current	Frequency	Output
METSECTLV2010U	100A	50/60Hz	0 to 1/3V
METSECTLV2020U	200A	50/60Hz	0 to 1/3V
METSECTLV2030U	300A	50/60Hz	0 to 1/3V
METSECTLV2040U	400A	50/60Hz	0 to 1/3V
METSECTLV3060U	600A	50/60Hz	0 to 1/3V
METSECTLV3080U	800A	50/60Hz	0 to 1/3V
METSECTLV4080U	800A	50/60Hz	0 to 1/3V
METSECTLV4100U	1000A	50/60Hz	0 to 1/3V
METSECTLV4120U	1200A	50/60Hz	0 to 1/3V
METSECTLV4160U	1600A	50/60Hz	0 to 1/3V
METSECTLV4200U	2000A	50/60Hz	0 to 1/3V
METSECTLV4240U	2400A	50/60Hz	0 to 1/3V
METSECTLV1005U	50A	50/60Hz	0 to 1/3V
METSECTLV1010U	100A	50/60Hz	0 to 1/3V
METSECTLV1020U	200A	50/60Hz	0 to 1/3V

* Split core LVCT with 1 V output can also be used.

Rogowski Coil for iEM3555 and iEM3565

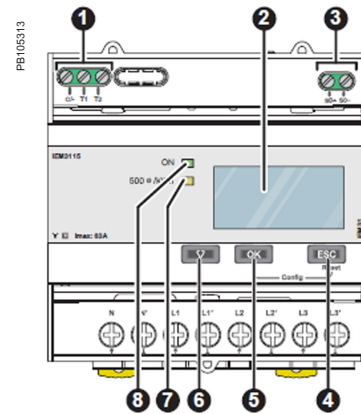
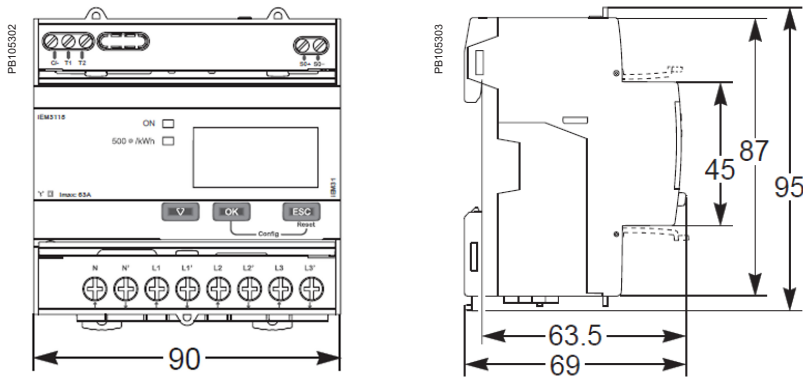
Part Number	Sensing Current	Frequency	Lead length (m)	Approximate Inside Diameter (mm)
METSECTR25500U	1000A	50/60Hz	2.4	79.5
METSECTR30500U	2000A	50/60Hz	2.4	95.5
METSECTR46500U	5000A	50/60Hz	2.4	146.4
METSECTR60500U	5000A	50/60Hz	2.4	191
METSECTR90500U	5000A	50/60Hz	2.4	286.5

Measurement accuracy

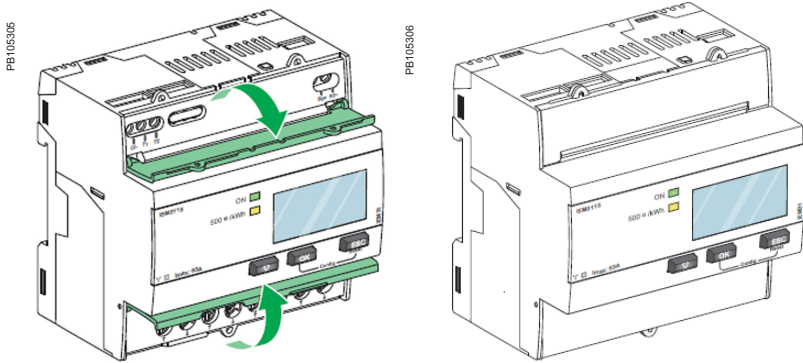
		As per EN / IEC 62053-21/22/23	As per BS / EN / IEC 61557-12	As per EN 50470-3	Current range of operation
iEM31xx	Active energy	Class 1 (IEC 62053-21)	Class 1 (PMD DD)	Class B	$I_{max}=63$ A, $I_{ref}=10$ A, $I_{min}=0.5$ A, and $I_{st}=0.04$ A
	Reactive energy	Class 2 (IEC 62053-23)	Class 2 (PMD DD)	-	$I_{max}=63$ A, $I_b=10$ A, and $I_{st}=0.05$ A
iEM33xx	Active energy	Class 1 (IEC 62053-21)	Class 1 (PMD DD)	Class B	$I_{max}=125$ A, $I_{ref}=20$ A, $I_{min}=1$ A, and $I_{st}=0.08$ A
	Reactive energy	Class 2 (IEC 62053-23)	Class 2 (PMD DD)	-	$I_{max}=125$ A, $I_b=20$ A, and $I_{st}=0.1$ A
iEM32xx (x/1 A Current input)	Active energy	Class 1 (IEC 62053-21)	Class 1 (PMD SD, PMD Sx)	Class B	$I_{max}=1.2$ A, $I_{nom}=1$ A, and $I_{st}=0.002$ A
	Reactive energy	Class 2 (IEC 62053-23)	Class 2 (PMD Sx)	-	$I_{max}=1.2$ A, $I_{nom}=1$ A, and $I_{st}=0.003$ A
iEM32xx (x/5 A Current input)	Active energy	Class 0.5S (IEC 62053-22)	Class 1 (PMD SD, PMD Sx)	Class C	$I_{max}=6$ A, $I_{nom}=5$ A, and $I_{st}=0.005$ A
	Reactive energy	Class 2 (IEC 62053-23)	Class 2 (PMD Sx)	-	$I_{max}=6$ A, $I_{nom}=5$ A, and $I_{st}=0.015$ A
iEM34xx (LVCT, 0.333/1.0 V at I_{nom}) Field selectable	Active energy	$\pm 1\%$	-	-	Low voltage output for 0.333 V LVCT, $I_{max}=0.399$ V, $I_{nom}=0.333$ V, and $I_{min}=0.022$ V
	Reactive energy	$\pm 2\%$	-	-	
iEM35xx (from 50 A to 5000 A)	Active energy	$\pm 1\%$	-	-	$I_{max}=5000$ A, $I_{min}=50$ A
	Reactive energy	$\pm 2\%$	-	-	

Acti 9 iEM3000 Series dimensions

iEM3000/iEM3200 series dimensions



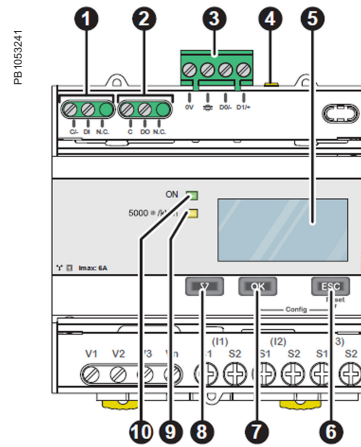
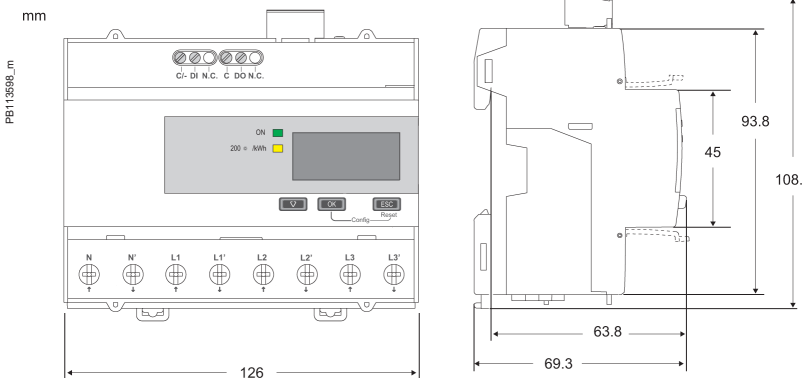
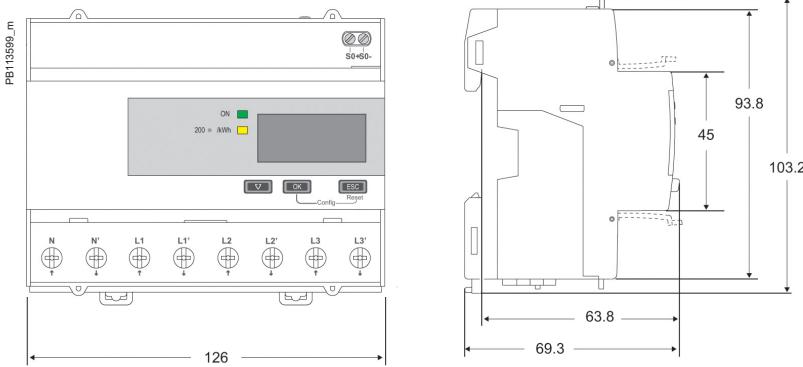
Acti 9 iEM3100/iEM3200 Series front flaps open and closed



Acti 9 iEM3000 Series parts

1. Digital inputs for tariff control (iEM3115 / iEM3215)
2. Display for measurement and configuration
3. Pulse out for remote transfer (iEM3110 / iEM3210)
4. ESC Cancellation
5. OK Confirmation
6. Selection
7. Flashing yellow meter indicator to check accuracy
8. Green indicator: on/off, error

iEM3300 series dimensions



Acti 9 iEM3000 Series parts

1. Digital inputs for tariff control (iEM3115 / iEM3215)
2. Display for measurement and configuration
3. Pulse out for remote transfer (iEM3110 / iEM3210)
4. ESC Cancellation
5. OK Confirmation
6. Selection
7. Flashing yellow meter indicator to check accuracy
8. Green indicator: on/off, error

Please see the appropriate *Installation Guide* for accurate and complete information on the installation of this product.

PM3000 series

The PowerLogic™ PM3000 series power meters are a cost-attractive, feature-rich range of DIN rail-mounted power meters that offers all the measurement capabilities required to monitor an electrical installation.

Ideal for power metering and network monitoring applications that seek to improve the availability and reliability of your electrical distribution system, the meters are also fully capable of supporting sub-metering and cost allocation applications.

Applications

Cost management applications

- Bill checking to verify that you are only charged for the energy you use
- Aggregation of energy consumption, including WAGES, and cost allocation per area, per usage, per shift or per time within the same facility
- Energy cost and usage analysis per zone, per usage or per time period to optimise energy usage

Network management applications

- Metering of electrical parameters to better understand the behaviour of your electrical distribution system



PM3200



PM3250

The solution for

All markets that can benefit from a solution that includes PowerLogic™ PM3000 series meters:

- Buildings
- Industry
- Data centres and networks
- Infrastructure (e.g. airports, road tunnels, telecom)

Benefits

Optimise your energy consumption & enable energy efficiency practices

- Collect and analyse energy consumption data from each area for each type of load or circuit
- Gain an accurate understanding of business expenses by allocating the energy-related costs
- Identify savings opportunities
- Use information to implement actions designed to reduce energy consumption

Competitive advantages

Connectivity advantages

- Programmable digital input
 - External tariff control signal (4 tariff)
 - Remote reset partial counter
 - External status like breaker status
 - Collect WAGES pulses
 - Programmable digital output
 - Alarm (PM3255)
 - KWh pulses
 - Graphic LCD display
 - Modbus RS-485 with screw terminals
- Multi-tariff capability
The PM3000 series allows users to arrange KWh consumption in four different registers. This can be controlled by:
- Digital inputs. Signal can be provided by PLC or utilities
 - Internal clock programmable by HMI
 - Through communication

This function allows users to:

- Make tenant metering for dual source applications to differentiate backup source or utility source
- Understand well the consumption during peak time and off-peak time, weekdays and weekends, holiday and working days etc.
- Follow up feeders consumption in line with utility tariff rates

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximise electrical network reliability and availability, and optimise electrical asset performance.

Conformity of standards

- | | |
|----------------|----------------|
| • IEC 61557-12 | • IEC 62053-23 |
| • IEC 61326-1 | • EN 50470-1 |
| • IEC 62052-11 | • EN 50470-3 |
| • IEC 62053-21 | • IEC 61010-1 |
| • IEC 62053-22 | • EN 55022 |

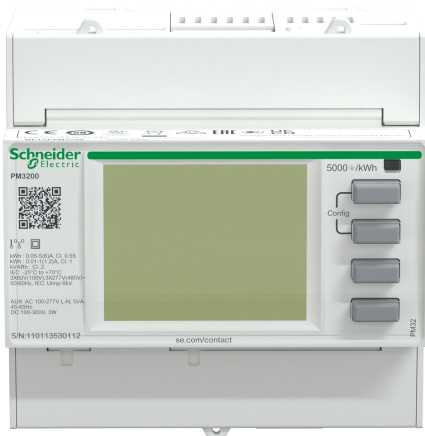
PM3000 series

PM3000 series feature selection

	PM3200	PM3210	PM3250	PM3255
Performance standard				
IEC61557-12 PMD/Sx/K55/0.5	■	■	■	■
General				
Use on LV and HV systems	■	■	■	■
Number of samples per cycle	32	32	32	32
CT input 1A/5A	■	■	■	■
VT input	■	■	■	■
Multi-tariff	4	4	4	4
Multi-lingual backlit display	■	■	■	■
Instantaneous rms values				
Current, voltage Per phase and average	■	■	■	■
Active, reactive, apparent power Total and per phase	■	■	■	■
Power factor Total and per phase	■	■	■	■
Energy values				
Active, reactive and apparent energy; import and export	■	■	■	■
Demand value				
Current, power (active, reactive, apparent) demand; present	■	■	■	■
Current, power (active, reactive, apparent) demand; peak		■	■	■
Power quality measurements				
THD Current and voltage		■	■	■
Data recording				
Min/max of the instantaneous values	■	■	■	■
Power demand logs				■
Energy consumption log (day, week, month)				■
Alarms with timestamping		5	5	15
Digital inputs/digital outputs		0/1		2/2
Communication				
RS-485 port			■	■
Modbus protocol			■	■
Commercial reference number	METSEPM3200	METSEPM3210	METSEPM3250	METSEPM3255

See your Schneider Electric representative for complete ordering information.

PM3000 series



PowerLogic™ PM3200 front view



PowerLogic™ PM3250 front view

PM3000 technical specifications

Type of measurement	True rms up to the 15th harmonic on three-phase (3P;3P+N) and single-phase AC systems. 32 samples per cycle
Measurement accuracy	
Current with x/5A CTs	0.3 % from 0.5 A to 6 A
Current with x/1A CTs	0.5 % from 0.1 A to 1.2 A
Voltage	0.3 % from 50 V to 330 V (Ph-N), from 80 V to 570 V (Ph-Ph)
Power factor	±0.005 from 0.5 A to 6 A with x/5 A CTs; from 0.1 A to 1.2 A with x/1 A CTs and from 0.5 L to 0.8 C
Active/Apparent Power with x/5A CTs	Class 0.5
Active/Apparent Power with x/1A CTs	Class 1
Reactive power	Class 2
Frequency	0.05 % from 45 to 65 Hz
Active energy with x/5A CTs	IEC 62053-22 Class 0.5s
Active energy with x/1A CTs	IEC 62053-21 Class 1
Reactive energy	IEC 62053-23 Class 2
Data update rate	
Update rate	1s
Input-voltage characteristics	
Measured voltage	50 V to 330 V AC (direct / VT secondary Ph-N) 80 V to 570 V AC (direct / VT secondary Ph-Ph) up to 1 MV AC (with external VT)
Frequency range	45 Hz to 65 Hz
Input-current characteristics	
CT primary	Adjustable from 1 A to 32767 A
CT secondary	1 A or 5 A
Measurement input range with x/5A CTs	0.05 A to 6 A
Measurement input range with x/1A CTs	0.02 A to 1.2 A
Permissible overload	10 A continuous, 20 A for 10s/hour
Control Power	
AC	100/173 to 277/480 V AC (+/-20%), 3 W/5 VA; 45 Hz to 65 Hz
DC	100 to 300 V DC, 3 W
Input	
Digital inputs (PM3255)	11 to 40 V DC, 24 V DC nominal, <=4mA maximum burden, 3.5kVrms insulation
Output	
Digital output (PM3210)	Optocoupler, polarity sensitive, 5 to 30 V, 15 mA max, 3.5kVrms insulation
Digital outputs (PM3255)	Solid state relay, polarity insensitive, 5 to 40 V, 50 mA max, 50 Ω max, 3.5kVrms insulation

PM3000 series

PM3000 technical specifications

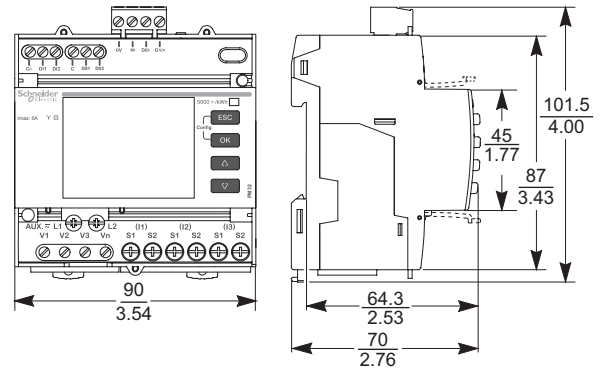
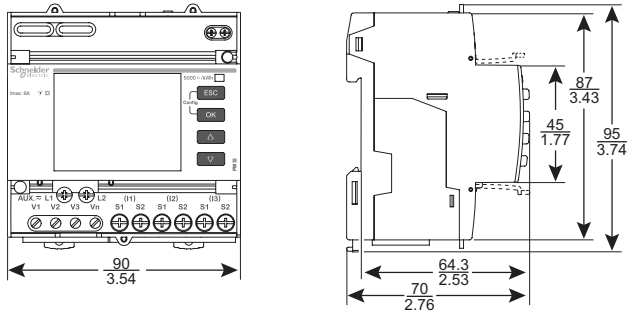
Mechanical characteristics	
Weight	0.26 kg
IP degree of protection (IEC 60529)	IP40 front panel, IP20 meter body
Dimension	90 x 95 x 70 mm
Environmental conditions	
Operating temperature	-25 °C to 55 °C
Storage temperature	-40 °C to 85 °C
Humidity rating	5 to 95% RH at 50 °C (non-condensing)
Pollution degree	2
Metering category	III, for distribution systems up to 277/480 V AC
Dielectric withstand	As per IEC61010-1, Doubled insulated front panel display
Altitude	3000 m max
Electromagnetic compatibility	
Electrostatic discharge	Level IV (IEC 61000-4-2)
Immunity to radiated fields	Level III (IEC 61000-4-3)
Immunity to fast transients	Level IV (IEC 61000-4-4)
Immunity to surge	Level IV (IEC 61000-4-5)
Conducted immunity	Level III (IEC 61000-4-6)
Immunity to power frequency magnetic fields	0.5mT (IEC 61000-4-8)
Conducted and radiated emissions	Class B (EN 55022)
Safety	
	CE as per IEC 61010-1★
Communication	
RS-485 port	Half duplex, from 9600 up to 38400 baud, Modbus RTU (double insulation)
Display characteristics	
Dimensions (VA)	43 mm x 34.6 mm
Display resolution	128 x 96 dots
Standard compliance	
	IEC 61557-12, EN 61557-12 IEC 61010-1, UL 61010-1 IEC 62052-11, IEC 62053-21, IEC 62053-22, IEC 62053-23 EN 50470-1, EN 50470-3

★ Protected throughout by double insulation

PM3000 dimensions

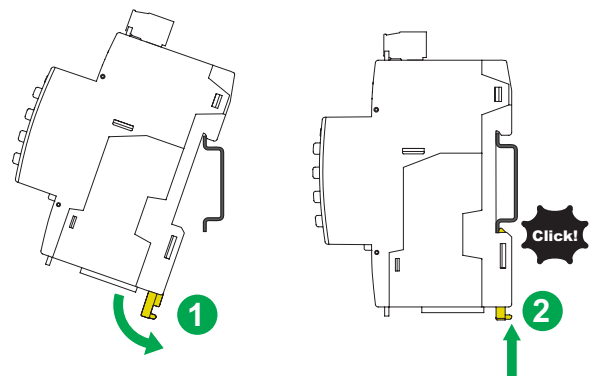
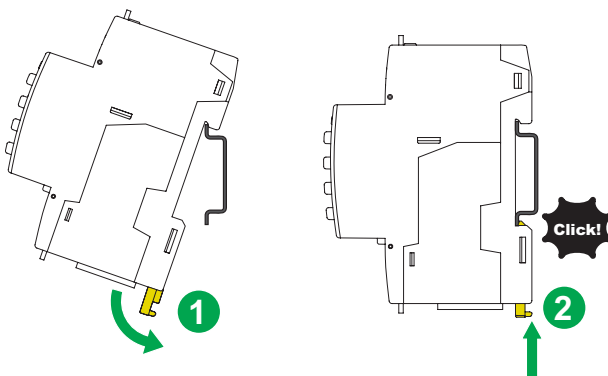
PM3200/PM3210 dimensions

PM3250/PM3255 dimensions

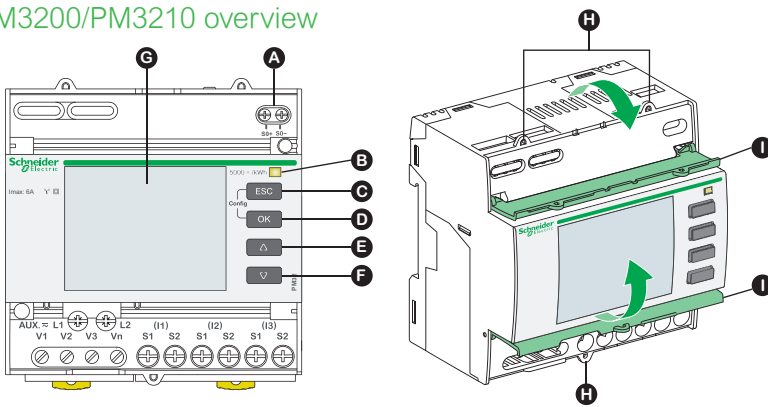


PM3200/PM3210 mounting

PM3250/PM3255 mounting

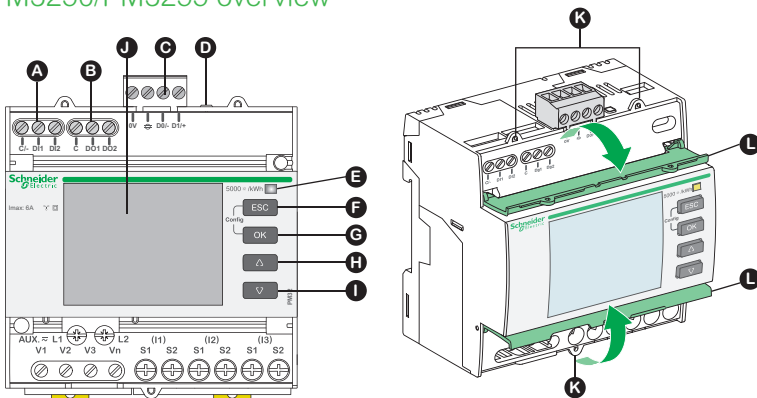


PM3200/PM3210 overview



- A Pulse output for remote transfer (PM3210)
- B Energy pulse LED (5000 / kWh)
- C Cancellation
- D Confirmation
- E Up
- F Down
- G Display with white backlight
- H Sealing points
- I Sealable covers

PM3250/PM3255 overview



- A Digital inputs x 2 (PM3255)
- B Digital outputs x 2 (PM3255)
- C Communications port
- D Communications LED
- E Energy pulse LED (5000 / kWh)
- F Cancellation
- G Confirmation
- H Up
- I Down
- J Display with white backlight
- K Sealing points
- L Sealable covers

Please see the appropriate *Installation Guide* for accurate and complete information on the installation of this product.



PowerLogic™ PowerTag Energy series

PowerTag Energy is a wireless-communication energy sensor.

PowerTag Energy is designed specifically for Energy Management, Load Monitoring and Power Availability applications. Associated to a concentrator or a gateway, PowerTag Energy provides a full wireless class 1 solution, as per IEC 61557-12, to monitor energy at any level of a distribution panel.

Applications:

- Monitors your electrical installation from main incomer down to load level
- Suitable for various businesses, buildings, industrial and residential applications with easy integration in upper systems
- Supports and enables Energy Efficiency programs and standards such as:
 - European Energy Efficiency Directive (EED)
 - Energy Performance of Buildings Directive (EPBD)
 - IEC 60364-8-1 “Low Voltage Electrical installations - Energy Efficiency”
 - EN 17267 “Energy Measurement and Monitoring plan”
 - ISO 50001 “Energy Management System”



PowerTag Energy Flex 63 A (F63)



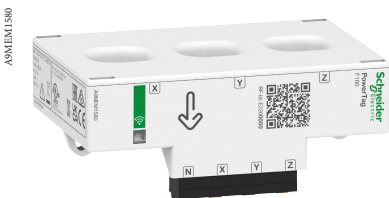
PowerTag Energy PhaseNeutral 63 A (P63)



PowerTag Energy Monoconnect 250 A (M250)



PowerTag Energy Rope 2000 A (R2000)



PowerTag Energy Flex 160 A (F160)



PowerTag Energy Monoconnect 63 A (M63)



PowerTag Energy

The solution for

Markets that benefit from a solution that includes PowerLogic™ PowerTag Energy series:

- Residential
- Small business
- Medium & large buildings
- Industrial sites

Benefits

PowerTag Energy sensor incorporates all features required to perform accurate real-time measurements (U, V, I, P, PF) and energy values up to 2000 A.

Different designs of PowerTag Energy are available to ensure it fits the protective device on which it is mounted.

- PowerTag Energy Monoconnect (M): can be mounted directly on the device, no additional wiring is required
- PowerTag Energy PhaseNeutral (P): for DIN offers with 9 mm pitch between phase and neutral
- PowerTag Energy Flex (F): can be mounted on a wide range of protective devices thanks to its design
- PowerTag Energy Rope (R) thanks to its openable current sensors can be easily installed on busbars or wires in new installations and in retrofit applications

PowerTag Energy sensor is acting as an autonomous meter. Energy counters are stored inside PowerTag Energy sensor.

Energy management system

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated gateways / concentrators depending on your application.

Advantages

- Wireless-communication
- Range up to 2000 A
- Voltage loss alarming
- Class 1 accuracy
- Compact design
- Easy installation and commissioning
- Scalable solution
- Perfect for retrofit or new panels

Conformity of standards

- IEC 61557-12
- IEC 61010-1
- IEC 61010-2-030
- IEC 61326-1 (Industrial Environment)
- IEC 62311
- ETSI EN 300 328
- ETSI EN 301 487-1
- ETSI EN 301 489-17 (Radiated EMC)



Feature selection



	A9MEM15**	A9MEM15**	A9MEM15**	A9MEM1580	LV434020/LV434021
Product name	M63	P63	F63	F160	M250
Max current (I Max) A	63	63	63	160	250
Basic current (Ib) A	10	10	10	25	40
Starting current (Ist)	40 mA	40 mA	40 mA	100 mA	160 mA
Design	Monoconnect	PhaseNeutral	Flex	Flex	Monoconnect
Mounting type	On device	On device	On wires	On wires	On device
Current sensors type	Solid core	Solid core	Solid core	Solid core	Solid core
Poles	1P + W / 1P+N / 3P / 3P+N	1P+N / 3P+N	1P+N / 3P / 3P+N	3P / 3P+N	3P / 3P+N
Self-powered	■	■	■	■	■
Voltage (L-N)	Depends on ref	200 - 240 V AC	Depends on ref	100 - 277 V AC	230 V AC
Measurements*					
Nb quadrant	2	2	2	4	4
Active Energy	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy				■	■
Apparent Energy				■	
Active Power	■	■	■	■	■
Reactive Power				■	■
Apparent Power	■	■	■	■	■
Power Factor	■	■	■	■	■
Frequency				■	■
Current and Voltage	■	■	■	■	■

* Data availability depending on the concentrator / gateway

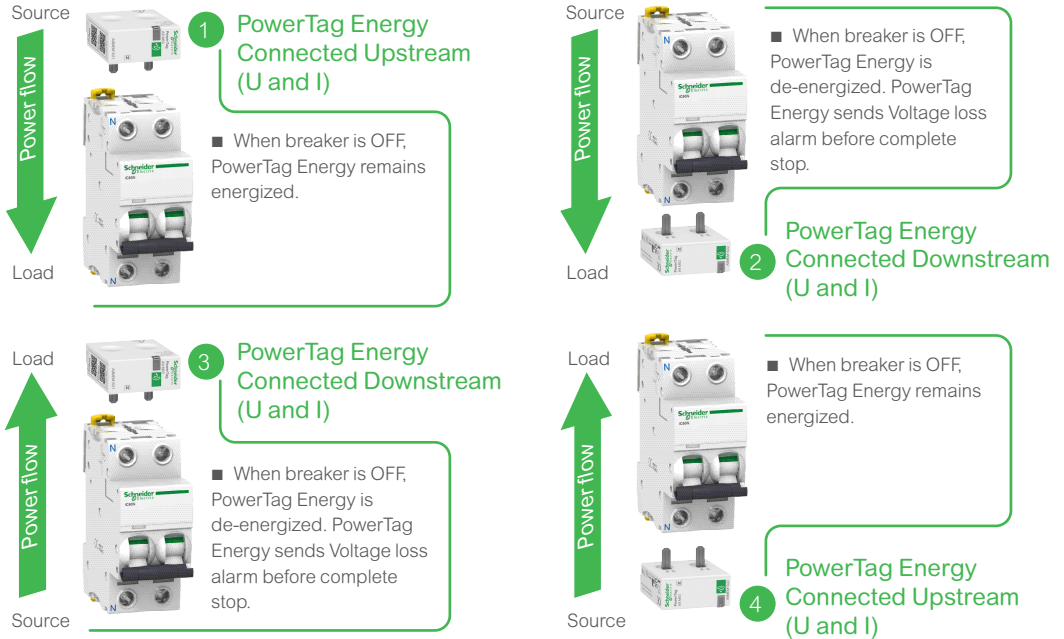


	LV434022/LV434023	A9MEM1590	A9MEM1591	A9MEM1592	A9MEM1593
Product name	M630	R200	R600	R1000	R2000
Max current (I Max) A	630	200	600	1000	2000
Basic current (Ib) A	100	100	100	150	300
Starting current (Ist)	400 mA	120 mA	400 mA	600 mA	1.2 A
Design	Monoconnect	Rope	Rope	Rope	Rope
Mounting type	On device	On wires	On wires	On wires	On wires
Current sensors type	Solid core	Split core	Split core	Split core	Split core
Poles	3P / 3P+N	3P / 3P+N	3P / 3P+N	3P / 3P+N	3P / 3P+N
Self-powered	■	■	■	■	■
Voltage (L-N)	230 V AC	100 - 277 V AC	100 - 277 V AC	100 - 277 V AC	100 - 277 V AC
Measurements*					
Nb quadrant	4	4	4	4	4
Active Energy	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy	■	■	■	■	■
Apparent Energy		■	■	■	■
Active Power	■	■	■	■	■
Reactive Power	■	■	■	■	■
Apparent Power	■	■	■	■	■
Power Factor	■	■	■	■	■
Frequency	■	■	■	■	■
Current and Voltage	■	■	■	■	■

* Data availability depending on the concentrator / gateway



Connection possibilities



Note:

- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.
- Some PowerTag Energy can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the "Catalog numbers" chapter.

Connection (Voltage and Current)	Features
Upstream	<ul style="list-style-type: none"> 1 • Energy management: consumption in kWh 4 • Load monitoring: real-time measurements
Downstream Preferred installation to take full benefit of voltage loss alarming in diagnosing the load	<ul style="list-style-type: none"> 2 • Energy management: consumption in kWh 3 • Load monitoring: real-time measurements • Power availability: voltage loss alarming

Main associated concentrators / gateways (*)

For Commercial & Building applications			
EcoStruxure™ Panel Server		SpaceLogic	
PAS400, PAS600, PAS600L with Cloud and SCADA		Automation Server V3 Premium	
For Small Business applications	For Residential applications	For Industrial applications	
EcoStruxure™ Panel Server	Wiser Home Hub Wiser Hub	Harmony Hub	EcoStruxure™ Panel Server
PAS400, PAS600, PAS600L with Cloud	PAS800, PAS800L standalone CCT501801 CCT501901	ZBRN1, ZBRN2, ZBRN32	PAS600, PAS600L

(*) Refer to Selection Guide for complete compatibility (CA908058)





PowerLogic™ PowerTag Energy 63 A

IEC 61557-12 PMD-I/DD/K55/1

As per the above standard:

With its compact design and innovative concept, PowerTag Energy 63 A fits directly on the protective device and as a result has no impact on DIN rail occupancy and switchboard size.

It is therefore well adapted to be mounted from head of group down to final circuits.

Since voltage and current are measured directly at the same point on the circuit to be monitored, it provides accurate measurement and relevant information such as voltage loss.

PowerTag Energy is compatible with SE product ranges as per the selection guide CA908058.

Main characteristics

PowerTag Energy measures the following values in accordance with the IEC 61557-12 standard PMD-I/DD/K55/1:

- Energy:
 - Active energy (kWh): total and partial, delivered and received.
- Real-time measurement values:
 - Voltages (V): phase-to-phase and phase-to-neutral.
 - Currents (A): per phase.
 - Power:
 - Active power (W): total and per phase.
 - Apparent power (VA): total.
 - Power factor.
- Voltage loss alarms:
 - PowerTag Energy sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
 - At “voltage loss”, PowerTag Energy adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.



PowerTag Energy
Monoconnect 63 A (M63)



PowerTag Energy
PhaseNeutral 63 A (P63)



PowerTag Energy
Flex 63 A (F63)



PowerTag Energy

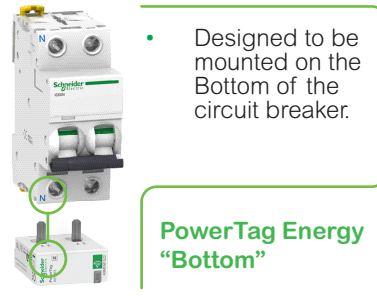
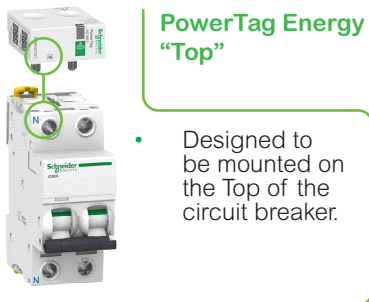


Product selection

Neutral position

Some references of PowerTag Energy 63 A (Monoconnect and PhaseNeutral) exist in Top or Bottom version.

This is linked to the position of the neutral of the PowerTag Energy.



Note:

- Some PowerTag Energy can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the “Catalog numbers” chapter.
- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.

Number of poles

Choose the PowerTag Energy according to the number of poles of the protective device: one PowerTag Energy per protective device.

Ex.: 3 Pole PowerTag Energy 63 A for a 3 pole CB.





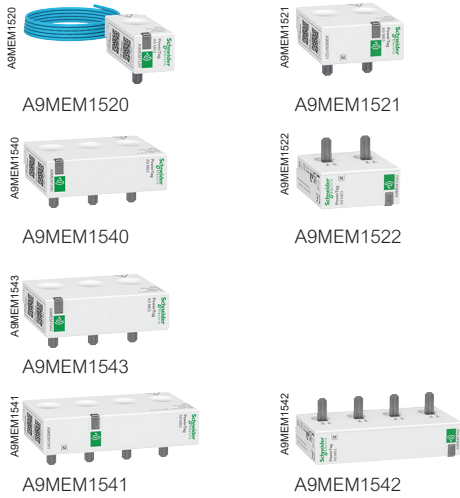
PowerLogic™ PowerTag Energy 63 A

Technical specifications

Main characteristics				
Rated voltage	1P+N / 1P+W	Un	Phase-to-neutral	200... 240 V AC ± 20 %
	3P	Un	Phase-to-phase	380... 415 V AC ± 20 %
	3P+N	Un	Phase-to-neutral	220... 240 V AC ± 20 %
			Phase-to-phase	380... 415 V AC ± 20 %
	A9MEM1543	Un	Phase-to-phase	200... 240 V AC ± 20 %
	A9MEM1564	Un	Phase-to-neutral	100... 127 V AC ± 20 %
	A9MEM1574	Un	Phase-to-neutral	120... 137 V AC ± 20 %
			Phase-to-phase	208... 240 V AC ± 20 %
A9MEM1575	Un	Phase-to-phase	480 V AC ± 20 %	
Frequency		50/60 Hz		
Maximum current		Imax		63 A
Basic current		Ib		10 A
Saturation current		130 A		
Maximum consumption		1P+N		≤ 1 VA
		3P/3P+N		≤ 2 VA
Starting current		Ist		40 mA
Additional characteristics				
Operating temperature		-25°C to +60°C		
Storage temperature		-40°C to +85°C		
Overvoltage category		As per IEC 61010-1		Cat. III
Measuring category		As per IEC 61010-2-030		Cat. III
Pollution degree		3		
Altitude		≤ 2000 m		
Degree of protection		Device only		IP20
		IK		05
Radio-frequency communication				
ISM band 2.4 GHz		2.4 GHz to 2.4835 GHz		
Channels		As per IEEE 802.15.4		11 to 26
Isotropic Radiated Power		Equivalent (EIRP)		0 dBm
Maximum transmission time		< 5 ms		
Channel occupancy		Messages sent every		5 seconds minimum
Characteristics of measuring functions				
Function	Symbol	Performance category as per IEC 61557-12 (PMD-I/DD/K55/1)		Device measuring range
		Class		
Active power	P	1		9 W to 63 kW
Active energy	Ea	1		Total and partial 0 to 99999999.9 kWh
Current	I	1		40 mA to 63 A
Voltage	U	0.5		Un ± 20 %
Power factor	PFA	1		0 to 1



PowerLogic™ PowerTag Energy 63 A

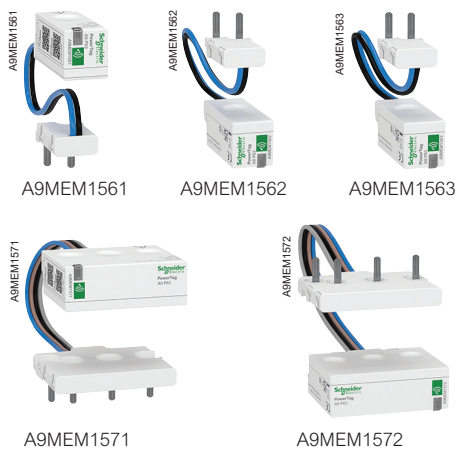


PowerTag Energy Monoconnect 63 A Commercial reference numbers

PowerTag Energy for Acti9 and Multi9 **Monoconnect** offers: «Single-terminal» circuit breakers, RCDs and switches with **18 mm pitch between phase and neutral**, rating less than or equal to 63 A.

Commercial reference no.	Type	Mounting	Description	Certification
A9MEM1520	1P+wire	Top or bottom	M63 1PW	DNV
A9MEM1521	1P+N	Top	M63 1PN T	DNV
A9MEM1522		Bottom	M63 1PN B	DNV
A9MEM1540	3P	Top or bottom	M63 3P	DNV
A9MEM1543			M63 3P 230V LL	DNV
A9MEM1541	3P+N	Top	M63 3PN T	DNV
A9MEM1542		Bottom	M63 3PN B	DNV

Designed to fit the following devices: iC60, Reflex iC60, DT60, IID.
Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.

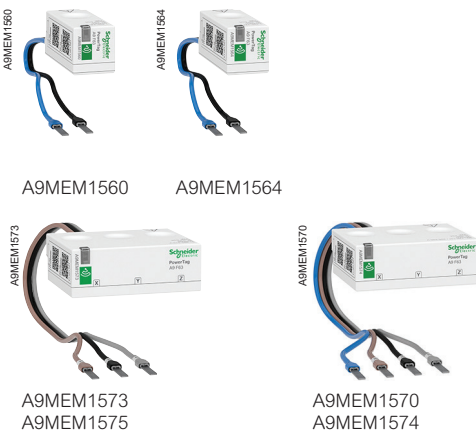


PowerTag Energy PhaseNeutral 63 A Commercial reference numbers

PowerTag Energy for Acti9 and Multi9 **PhaseNeutral** offers: «Single-terminal» circuit breakers, RCDs and switches at **pitch of 9 mm between phase and neutral**, rating less than or equal to 63 A.

Commercial reference no.	Type	Mounting	Description	Certification
A9MEM1561	1P+N	Top	P63 1PN T	DNV
A9MEM1562	1P+N	Bottom	P63 1PN B	DNV
A9MEM1563	1P+N RCBO	Bottom	P63 1PN B RCBO 18mm	DNV
A9MEM1571	3P+N	Top	P63 3PN T	DNV
A9MEM1572	3P+N	Bottom	P63 3PN B	DNV

Designed to fit the following devices: DT40, iDPN, C40, iDPN Vigi.
Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.



PowerTag Energy Flex 63 A Commercial reference numbers

PowerTag Energy **Flex** for other devices and specific installations, rating less than or equal to 63 A.

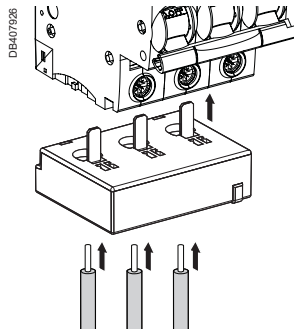
Commercial reference no.	Type	Mounting	Description	Certification
A9MEM1560	1P+N	Top or bottom	F63 1PN	DNV
A9MEM1564	1P+N	Top or bottom	F63 1PN 110V	DNV
A9MEM1573	3P	Top or bottom	F63 3P	DNV
A9MEM1575	3P	Top or bottom	F63 3P 480V LL IEC/UL	UL US LISTED
A9MEM1570	3P+N	Top or bottom	F63 3PN	DNV
A9MEM1574	3P+N	Top or bottom	F63 3PN 127/220V	DNV

Designed to fit the following devices: Vigi iDT40, Vigi iC40, Vigi iC60, iC60 double terminal, iID double terminal.
Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.

Contact your Schneider Electric representative for complete ordering information.



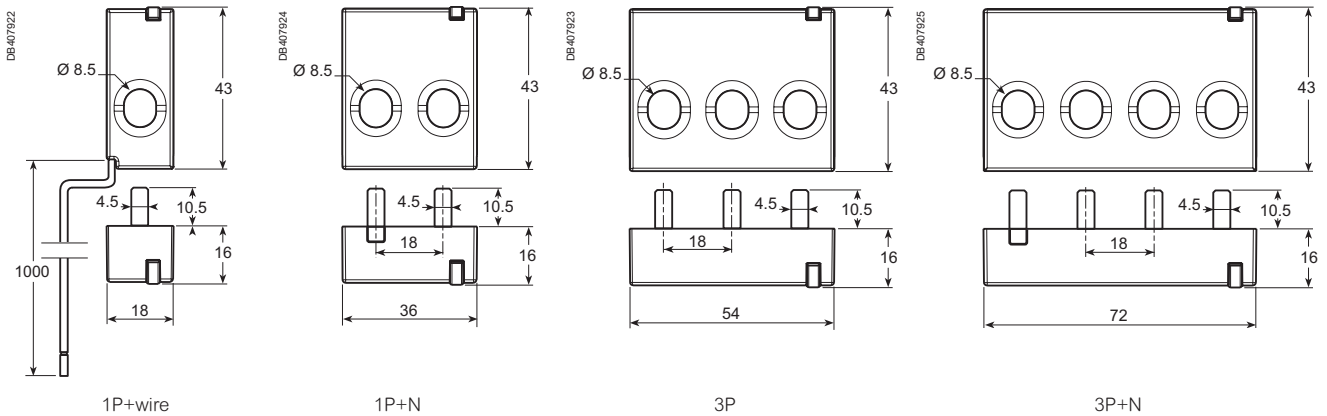
PowerTag Energy Monoconnect 63 A connection



Stripping length	Copper cables					
	Rigid		Flexible		Flexible with ferrule	
18 mm	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14

Mounting with 18 mm ferrule recommended.

PowerTag Energy Monoconnect 63 A dimensions (mm)



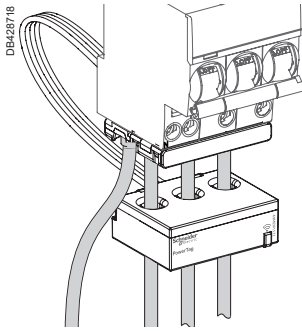
PowerTag Energy Monoconnect 63 A weight

Type	Weight (g)
1P+wire	16.4
1P+N	17.5
3P	28
3P+N	35

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.



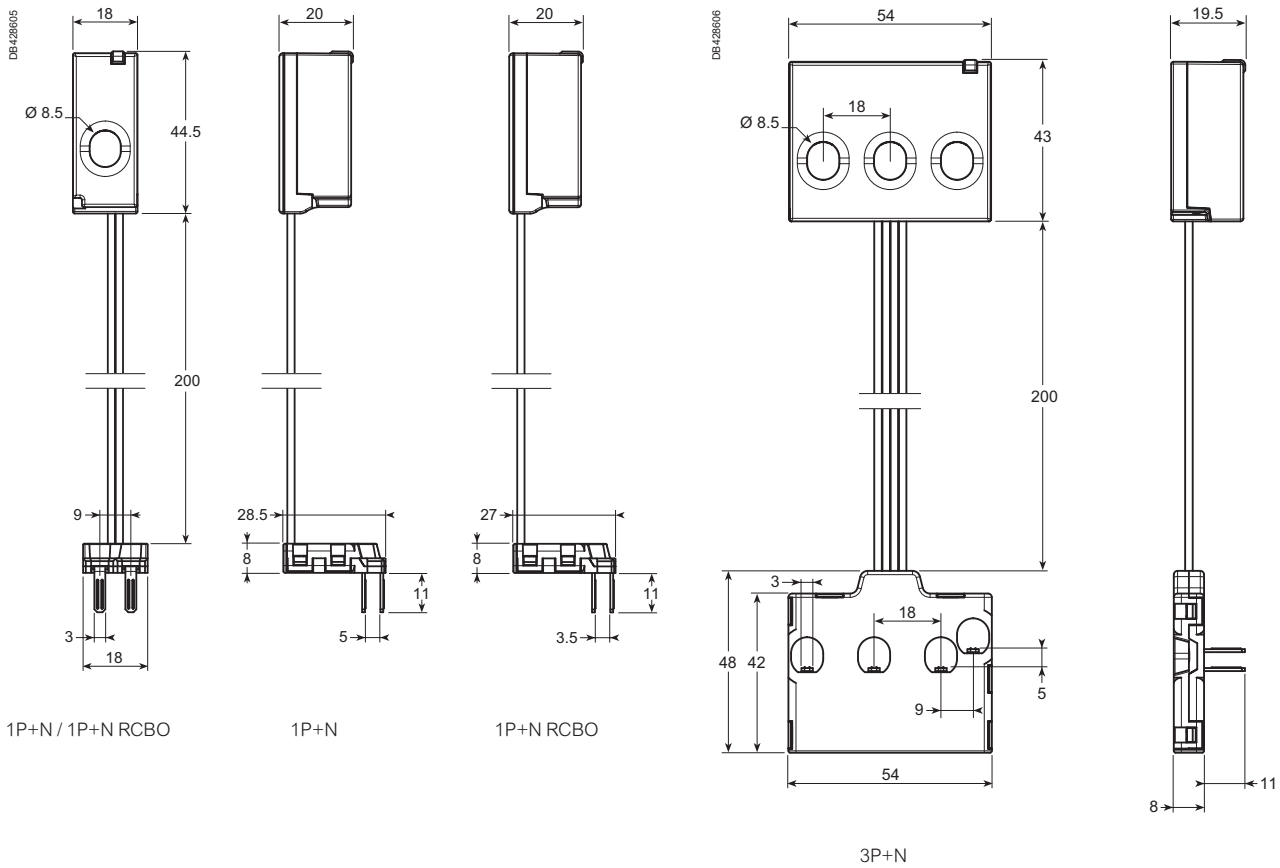
PowerTag Energy PhaseNeutral 63 A connection



Copper cables					
Rigid		Flexible		Flexible with ferrule	
1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14

Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

PowerTag Energy PhaseNeutral 63 A dimensions (mm)



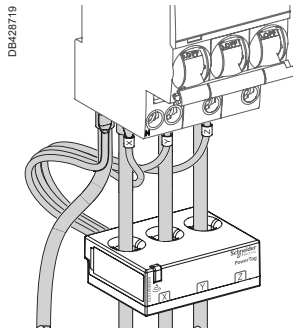
PowerTag Energy PhaseNeutral 63 A weight

Type	Weight (g)
1P+N	18
3P+N	48

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.



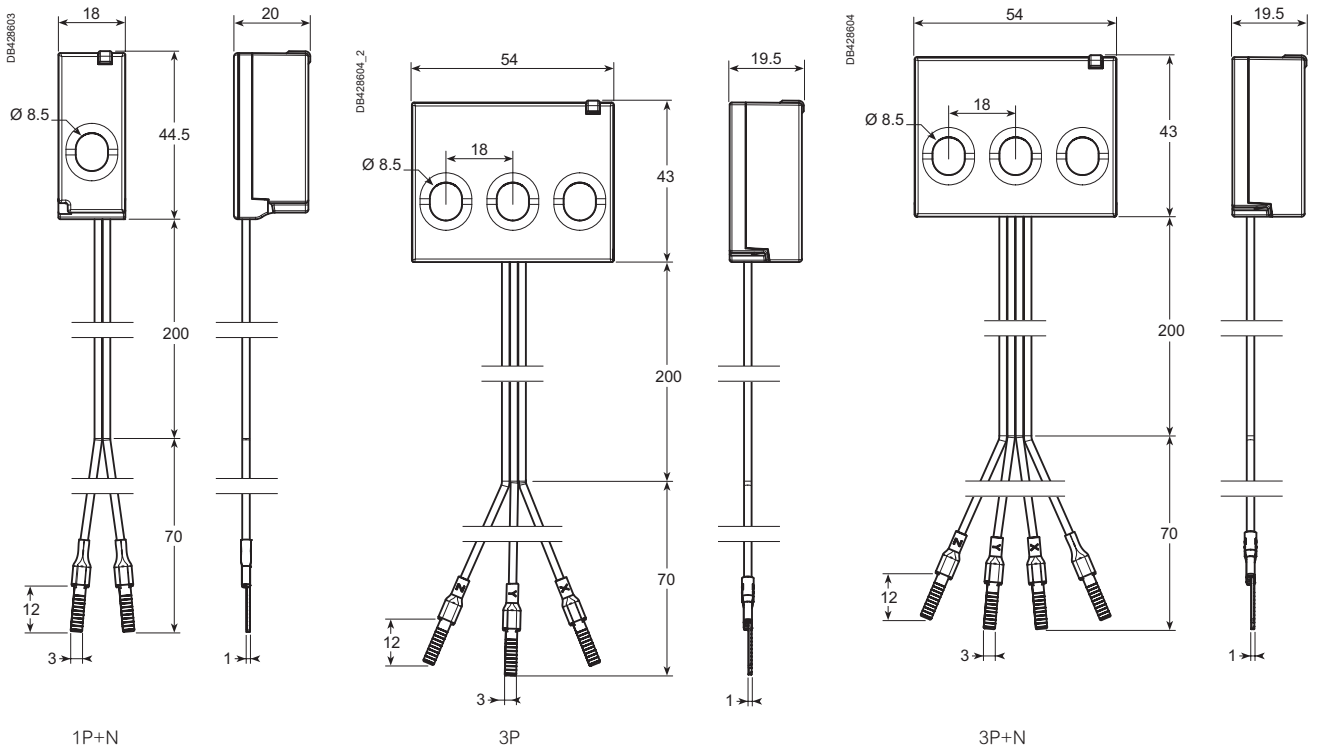
PowerTag Energy Flex 63 A connection



Copper cables					
Rigid		Flexible		Flexible with ferrule	
1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14

Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

PowerTag Energy Flex 63 A dimensions (mm)



PowerTag Energy Flex 63 A weight

Type	Weight (g)
1P+N	16
3P	38
3P+N	40

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.



PowerLogic™ PowerTag Energy 63 A Resi9

IEC 61557-12 PMD-I/DD/K55/1

As per the above standard:

With its compact design and innovative concept, PowerTag Energy 63 A Resi9 fits directly on the Resi9 protective device and as a result has no impact on DIN rail occupancy and switchboard size.

It is therefore well adapted to be mounted from head of group down to final circuits.

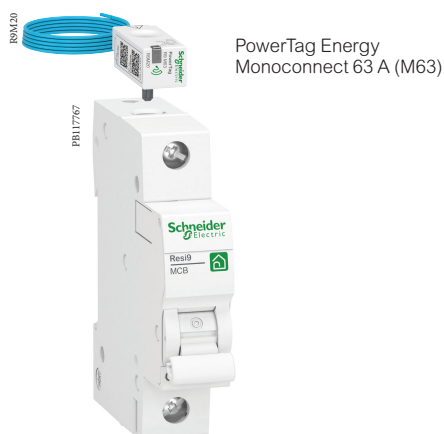
Since voltage and current are measured directly at the same point on the circuit to be monitored, it provides accurate measurement and relevant information such as voltage loss.

PowerTag Energy 63 A Resi9 is dedicated to the Resi9 range of devices and compatible with Wiser concentrators/gateways.

Main characteristics

PowerTag Energy measures the following values in accordance with the IEC 61557-12 standard PMD-I/DD/K55/1:

- Energy:
 - Active energy (kWh): total and partial, delivered and received.
- Voltage loss alarms:
 - PowerTag Energy sends a “voltage loss” alarm before being de-energized.
 - At “voltage loss”, PowerTag Energy adds an overload alarm if the current is higher than the rated current of the associated protective device.

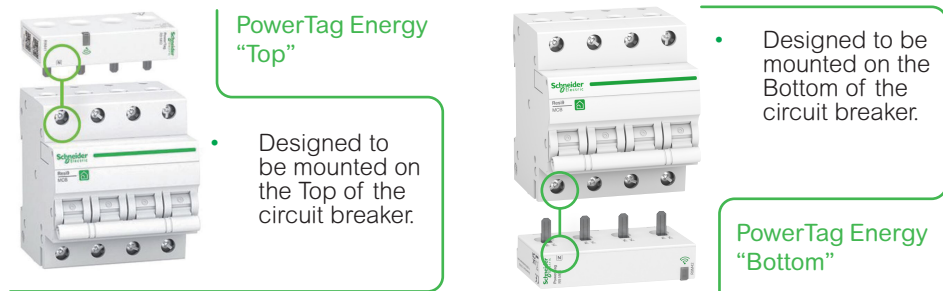




PowerLogic™ PowerTag Energy 63 A Resi9

Installation

Some references of PowerTag Energy 63 A Resi9 (Monoconnect) exist in Top or Bottom version. This is linked to the position of the neutral of the PowerTag Energy.



Note:

- Some PowerTag Energy 63 A Resi9 can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the "Catalog numbers" chapter.
- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.

Number of poles

Choose the PowerTag Energy according to the number of poles of the protective device: one PowerTag Energy per protective device.

Ex.: 3 pole PowerTag Energy 63 A Resi9 for a 3 pole CB.





PowerLogic™ PowerTag Energy 63 A Resi9

Technical specifications

Main characteristics				
Rated voltage	1P+N / 1P+W	Un	Phase-to-neutral	200... 240 V AC ± 20 %
	3P	Un	Phase-to-phase	380... 415 V AC ± 20 %
	3P+N	Un	Phase-to-neutral	220... 240 V AC ± 20 %
			Phase-to-phase	380... 415 V AC ± 20 %
R9M43	Un	Phase-to-phase	200... 240 V AC ± 20 %	
Frequency				50/60 Hz
Maximum current		I _{max}		63 A
Basic current		I _b		10 A
Saturation current				130 A
Maximum consumption			1P+N	≤ 1 VA
			3P/3P+N	≤ 2 VA
Starting current		I _{st}		40 mA
Additional characteristics				
Operating temperature				-25°C to +60°C
Storage temperature				-40°C to +85°C
Overvoltage category			As per IEC 61010-1	Cat. III
Measuring category			As per IEC 61010-2-030	Cat. III
Pollution degree				3
Altitude				≤ 2000 m
Degree of protection			Device only	IP20
			IK	05
Radio-frequency communication				
ISM band 2.4 GHz				2.4 GHz to 2.4835 GHz
Channels			As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power			Equivalent (EIRP)	0 dBm
Maximum transmission time				< 5 ms
Channel occupancy			Messages sent every	5 seconds minimum
Characteristics of measuring functions				
Function	Symbol	Performance category as per IEC 61557-12 (PMD-I/DD/K55/1) Class		Device measuring range
Active energy (delivered and received)	E _a	1		Total and partial 0 to 99999999.9 kWh
Current	I	1		40 mA to 63 A
Voltage	U	0.5		Un ± 20 %



PowerLogic™ PowerTag Energy 63 A Resi9



R9M20



R9M21



R9M40



R9M22



R9M43



R9M41



R9M42



R9M60



R9M70

PowerTag Energy Monoconnect 63 A Resi9 Commercial reference numbers

PowerTag Energy for Resi9 Monoconnect offers: «Single-terminal» circuit breakers, RCDs and switches with 18 mm pitch between phase and neutral, rating less than or equal to 63 A.



Commercial reference number	Type	Mounting	Description
R9M20	1P+wire	Top or bottom	PowerTag Energy R9 M63 1PW
R9M21	1P+N	Top	PowerTag Energy R9 M63 1PN T
R9M22		Bottom	PowerTag Energy R9 M63 1PN B
R9M40	3P	Top or bottom	PowerTag Energy R9 M63 3P
R9M43			PowerTag Energy R9 M63 3P 230V LL
R9M41	3P+N	Top	PowerTag Energy R9 M63 3PN T
R9M42		Bottom	PowerTag Energy R9 M63 3PN B

Refer to the Resi9 catalog in your country to select the right PowerTag Energy model to fit on the Resi9 protective device you want to equipped.

PowerTag Energy Flex 63 A Resi9 Commercial reference numbers

PowerTag Energy Flex for other Resi9 devices and specific installations, rating less than or equal to 63 A.



Commercial reference number	Type	Mounting	Description
R9M60	1P+N	Top or bottom	PowerTag Energy R9 F63 1PN
R9M70	3P+N	Top or bottom	PowerTag Energy R9 F63 3PN

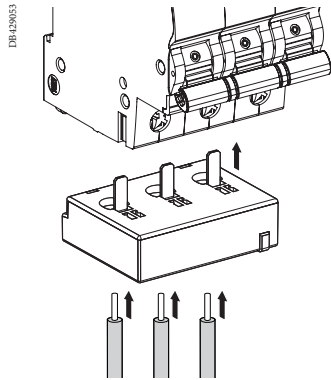
Refer to the Resi9 catalog in your country to select the right PowerTag Energy model to fit on the Resi9 protective device you want to equipped.

To allow PowerTag Energy Resi9 F63 to adapt to different types of terminals, the voltage tap lugs can be replaced with other end-pieces or lugs for AWG22/0.33 mm² wires.



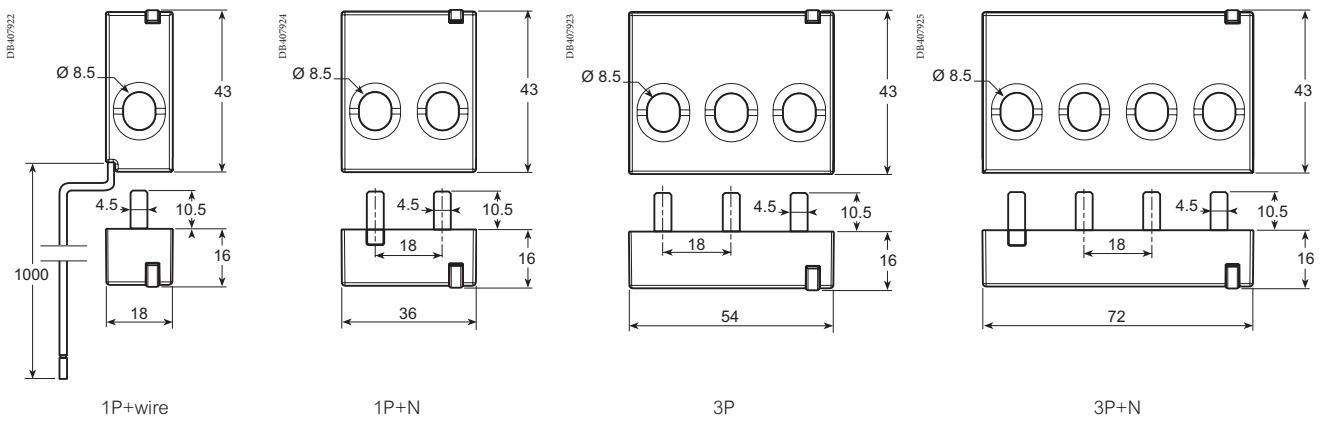
PowerLogic™ PowerTag Energy 63 A Resi9

PowerTag Energy R9 M63 connection



Stripping length : 18 mm

PowerTag Energy R9 M63 dimensions (mm)



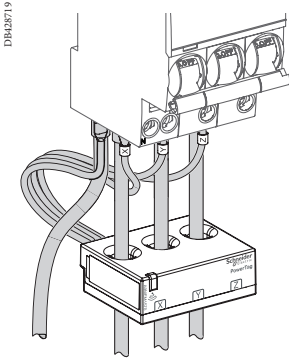
PowerTag Energy R9 M63 weight

Type	Weight (g)
1P+wire	16.4
1P+N	17.5
3P	28
3P+N	35



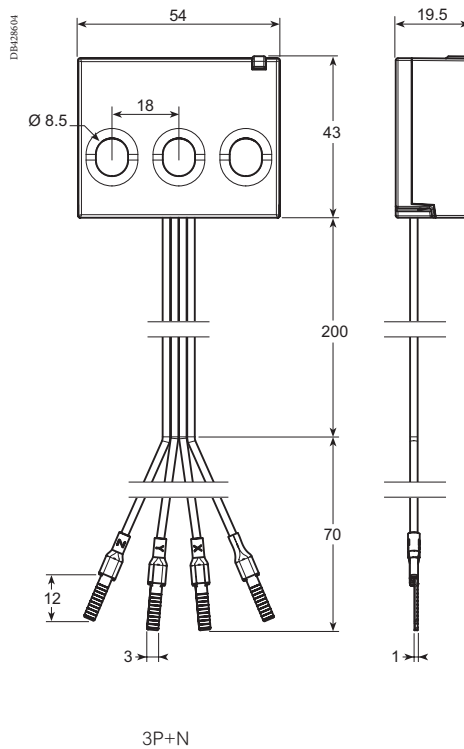
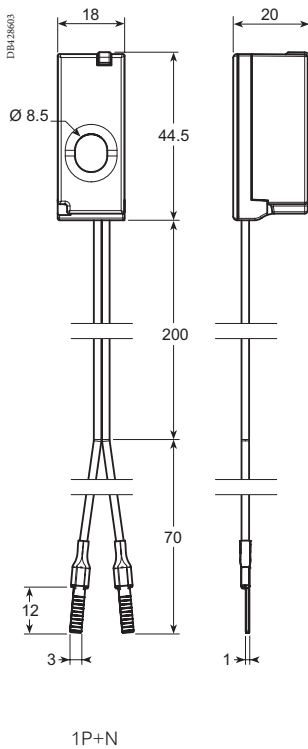
PowerLogic™ PowerTag Energy 63 A Resi9

PowerTag Energy R9 F63 connection



Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

PowerTag Energy R9 F63 dimensions (mm)



PowerTag Energy R9 F63 weight

Type	Weight (g)
1P+N	16
3P	40

Please refer to PowerTag Energy 63 A Resi9 Installation Sheet for accurate and complete information on the installation of this product.



PowerLogic™ PowerTag Energy Flex 160 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

With its flex design this PowerTag Energy can be used on many products or group of loads up to 160 A on 3P or 3P+N networks. Its removable spring connector for voltage picking facilitates its installation, and shapes for brackets allows to mount and maintain it where needed in a panel.

Main characteristics

PowerTag Energy Flex 160 A measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
 - Active energy (kWh): total and partial, delivered and received.
 - Active energy per phase (kWh): total and partial, delivered and received.
 - Reactive energy (kVARh): total and partial, delivered and received.
 - Reactive energy per phase (kVARh): total and partial, delivered and received.
 - Apparent energy (kVAh): total and partial.
 - Apparent energy per phase (kVAh): total and partial.
- Real-time measurement values:
 - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
 - Currents (A): per phase (I1, I2, I3), calculated neutral current when connected (IN) .
 - Power:
 - Active power (W): total and per phase.
 - Reactive power (VAR): total and per phase.
 - Apparent power (VA): total and per phase.
 - Frequency (Hz).
 - Power factor: total and per phase.
- Voltage loss alarms:
 - PowerTag Energy Flex sensor sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
 - At “voltage loss”, PowerTag Energy Flex adds an overload alarm if the current is higher than the rated current of the associated protective device

Note: Functions listed above depends on Concentrator/Gateway.



PowerTag Energy Flex 160 A



PowerTag Energy



Installation

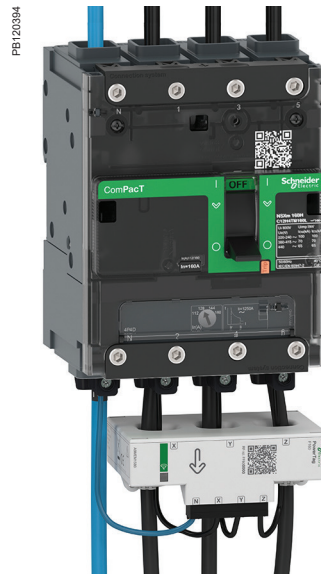
PowerTag Energy Flex 160 A can be installed in a panel directly on cables or busbars, associated to a product or not. Voltage pickings removable spring terminal has to be wired by 1 copper wire per phase with following characteristics:

Wire range

Solid	Stranded	Stranded with terminal ends
0.2...1.5 mm ²	0.2...2.5 mm ²	0.25...1.5 mm ²
24...16 AWG	24...14 AWG	24...16 AWG

Neutral picking shall be connected to have phase-to-neutral voltages, energy per phase and power per phase provided.

PowerTag Energy Flex 160 A is mainly advised for ComPact NSXm, ComPact INS160, Acti9 NG125, Acti9 C120, PowerPact B, TeSys GV4, and all other devices with a rating between 63 A and 160 A.





PowerLogic™ PowerTag Energy Flex 160 A

Technical specifications

Main characteristics (as per IEC 61557-12)			
Rated voltage	Un	Phase-to-neutral	100...277 VAC ± 20 %
		Phase-to-phase	173...480 VAC ± 20 %
Frequency			50/60 Hz
Maximum current	I _{max}		160 A
Maximum operating current			1.2 x I _{max}
Saturation current			2 x I _{max}
Maximum consumption			3 VA
Starting current	I _{st}		100 mA
Basic current	I _b		25 A
Additional characteristic			
Operating temperature			-25 °C to +70 °C
Storage temperature			-40 °C to +85 °C
Overvoltage category		As per IEC 61010-1	Cat. IV
Measuring category		As per IEC 61010-2-030	Cat. IV
Pollution degree			3
Altitude			Up to 2000 m without derating ⁽¹⁾
Degree of protection device			IP20 IK05
Radio-frequency communication			
ISM band 2.4 GHz			2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power		Equivalent (EIRP)	0 dBm
Maximum transmission time			< 5 ms
Channel occupancy		For 1 device	messages sent every 5 seconds
Characteristics of measuring functions			
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1)	Device measuring range
		Class	
Total active power (Active power per phase)	P	1	24 W (8 W) to 192 kW
Total reactive power (Reactive power per phase)	Q _A	2	30 VAR (10 VAR) to 192 kVAR
Total apparent power (Apparent power per phase)	S _A	2	38 VA (13 VA) to 192 kVA
Active Energy: per phase, total, partial, delivered and received	E _a	1	0 to 281.10 ⁹ kWh
Reactive energy: per phase, total, partial, delivered and received	E _{rA}	2	0 to 281.10 ⁹ kVARh
Apparent energy: per phase, total, partial	E _{apA}	2	0 to 281.10 ⁹ kVAh
Frequency	f	0.5	45 to 65 Hz
Phase current	I	1	100 mA to 320 A
Neutral current	I _{NC}	2	
Voltages (Line to Line)	U	0.5	138 to 576 VAC
Power factor (per phase, total)	PF _A	1	-1 to 1

(1) Above 2000 m, please consult us.



PowerLogic™ PowerTag Energy Flex 160 A



A9MEM1580

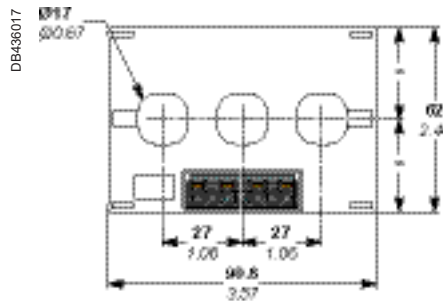
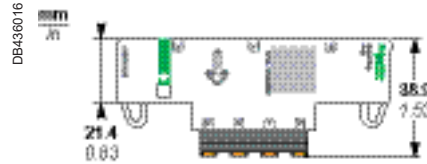
PowerTag Energy Flex 160 A Commercial reference numbers



Commercial reference number	Type	Description	Certification
A9MEM1580	F160 3P/3P+N	Flex 160 A 3P / 3P+N	 DNV

Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.

PowerTag Energy Flex 160 A dimensions



PowerTag Energy Flex 160 A weight

Type	Weight (g)
F160 3P/3P+N	100

Contact your Schneider Electric representative for complete ordering information.

Please refer to PowerTag Energy Flex 160 A Installation Sheet for accurate and complete information on the installation of this product.



PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

PowerTag Energy M250/M630 is designed for Molded Case Circuit Breakers and Switches (ComPact, EasyPact CVS and TeSys) for 3P and 3P+N electrical networks. This PowerTag Energy is mounted directly on the bottom side of the circuit breaker or the Vigi add-on if any. Thanks to its integrated design, it does not require any specific wiring, and is compatible with the same connection accessories than the device it is mounted on.

Main characteristics

PowerTag Energy M250/M630 measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
 - Active energy (kWh): total and partial, delivered and received.
 - Active energy per phase (kWh): total.
 - Reactive energy (kVARh): partial, delivered and received.
- Real-time measurement values:
 - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
 - Currents (A): per phase (I1, I2, I3).
 - Power:
 - Active power (W): total and per phase.
 - Reactive power (VAR): total.
 - Apparent power (VA): total.
 - Frequency (Hz).
 - Power factor.
- Voltage loss alarms:
 - PowerTag Energy sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
 - At “voltage loss”, PowerTag Energy adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.



PowerTag Energy Monoconnect 250 A



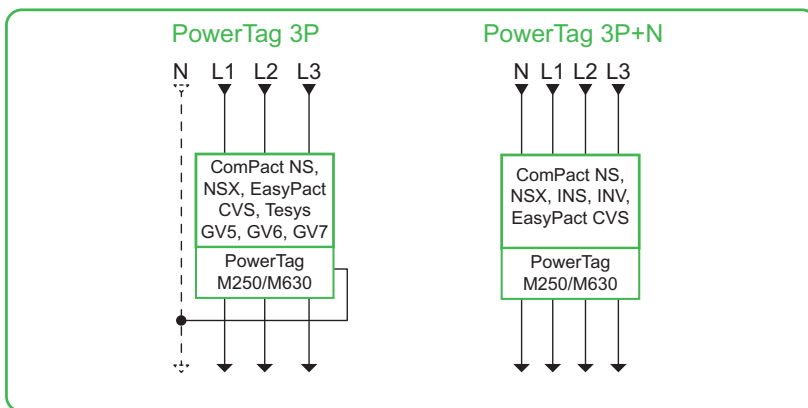
PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

Installation

The module is self-powered and is installed for fixed devices directly on the bottom side of the circuit breaker or Vigi add-on terminals. For plug-in devices, it has to be installed on the base itself, top or bottom.

PowerTag Energy M250/M630 3P has to be used with 3P devices, and an external neutral voltage tap is provided in case of the installation has a neutral to provide phase-to-neutral voltages, active energy per phase and power per phase.

PowerTag Energy M250/M630 3P+N has to be used with 4P devices and with Compact INS/INV 3P/4P switches



PowerTag M250/M630 modules are compatible with Compact NSX100/160/250, Compact NSX400/630, Compact INS250-100A to 250A, Compact INS320/400/500/630, Compact INV100/160/200/250, Compact INV320/400/500/630, Compact NS100/160/250, Compact NS400/630, EasyPact CVS 100-250, EasyPact CVS 400-630, TeSys GV5, TeSys GV6 and TeSys GV7.

Important notice : A derating coefficient may apply for the circuit-breaker on which the PowerTag is mounted on. Refer to the circuit breaker catalogue for derating coefficient.

In case of retrofit, following points have to be checked:

- Clearance to be able to add PowerTag Energy module and to respect bending radius of cables.
- Condition of power connectors: to be replaced if damaged.
- Tightening torques depending of the connector used.

LV434022_image=NSX630-3P





PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

Technical specifications

Main characteristics			
Rated voltage	Un	Phase-to-neutral	230 VAC ± 20 %
		Phase-to-phase	400 VAC ± 20 %
Frequency			50/60 Hz
Maximum current	I _{max}		250 A / 630 A
Maximum operating current			1.2 × I _{max}
Saturation current			2 × I _{max}
Maximum consumption			3.7 VA
Starting current	I _{st}		160 mA / 400 mA
Basic current	I _b		40 A / 100 A
Additional characteristic			
Operating temperature			-25 °C to +70 °C
Storage temperature			-50 °C to +85 °C
Overvoltage category		As per IEC 61010-1	Cat. IV
Measuring category		As per IEC 61010-2-030	Cat. III
Pollution degree			3
Altitude			Up to 2000 m without derating ⁽¹⁾
Degree of protection device			IP20 IK07
Radio-frequency communication			
ISM band 2.4 GHz			2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power		Equivalent (EIRP)	0 dBm
Maximum transmission time			< 5 ms
Channel occupancy		For 1 device	messages sent every 5 seconds
Characteristics of measuring functions			
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1)	Device measuring range (250 A / 630 A)
		Class	
Total active power (Active power per phase)	P	1	88 W (29 W) to 416 kW / 222 W (74 W) to 1048 kW
Total reactive power	Q _A	2	88 VAR to 416 kVAR / 221 VAR to 1048 kVAR
Total apparent power	S _A	2	88 VA to 416 kVA / 221 VA to 1048 kVA
Active Energy: per phase, total, partial	E _a	1	0 to 281.10 ⁹ kWh
Partial Reactive Energy	E _{rA}	2	0 to 281.10 ⁹ kVARh
Phase current	I	1	160 mA to 500 A / 400 mA to 1260 A
Voltages (Line to Line)	U	0.5	320 to 480 VAC
Power factor	PF _A	1	-1 to 1

⁽¹⁾ Above 2000 m, please consult us.



PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A



LV434020



LV434021



LV434022



LV434023

PowerTag Energy Monoconnect 250 A & 630 A Commercial reference numbers

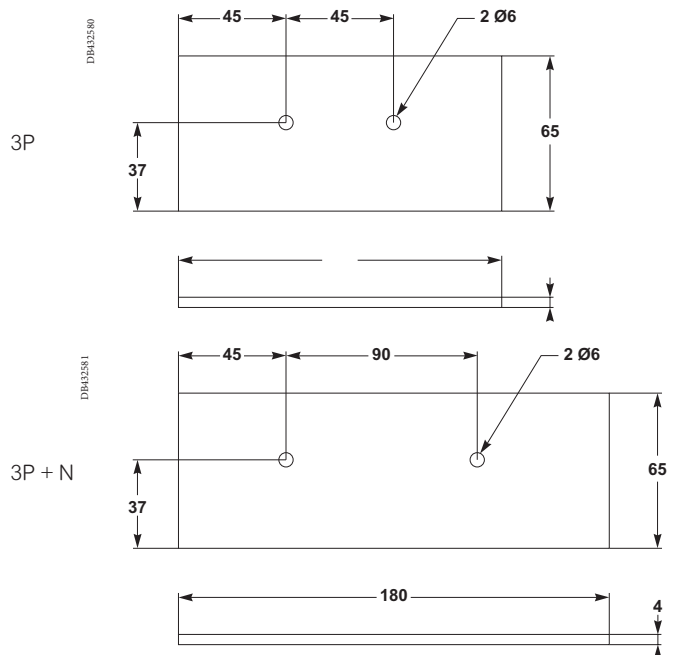


Commercial reference number	Type	Description	Certification	Connection adapter for mounting on plug-in base only
LV434020	M250 3P	PowerTag Energy 250 A 3P	DNV	LV429306
LV434021	M250 3P+N	PowerTag Energy 250 A 3P+N	DNV	LV429307
LV434022 (1)	M630 3P	PowerTag Energy 630 A 3P	DNV	LV432584
LV434023 (1)	M630 3P+N	PowerTag Energy 630 A 3P+N	DNV	LV432585

Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the Selection Guide pages 87 to 97.

Contact your Schneider Electric representative for complete ordering information.

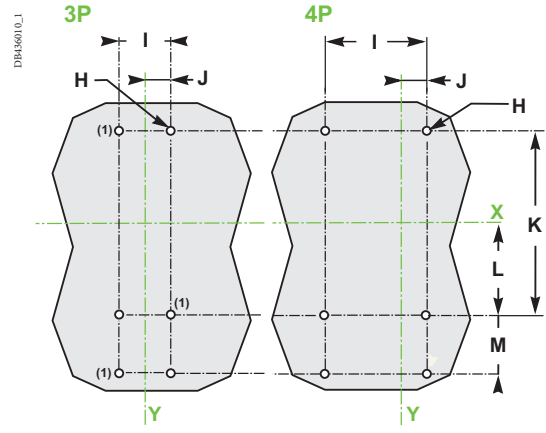
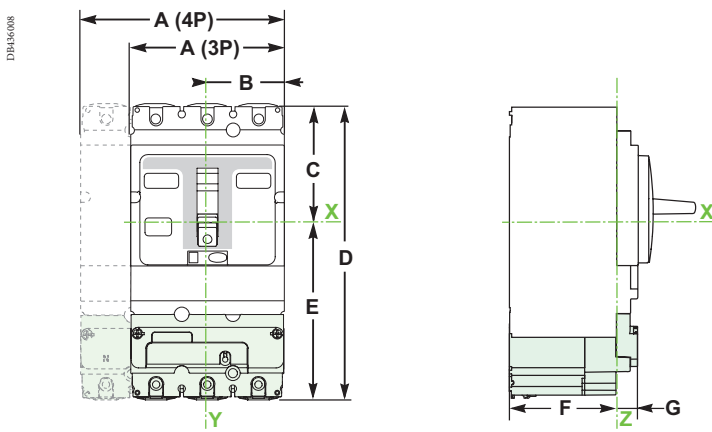
(1) For plug-in devices only: when plate mounted, need to add an intercalary wedging plate under the PowerTag Energy module with following dimensions:



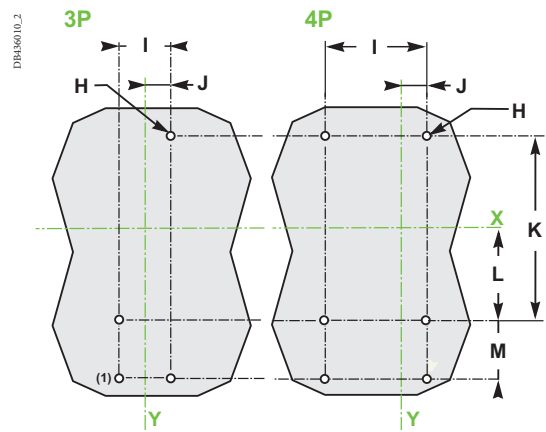
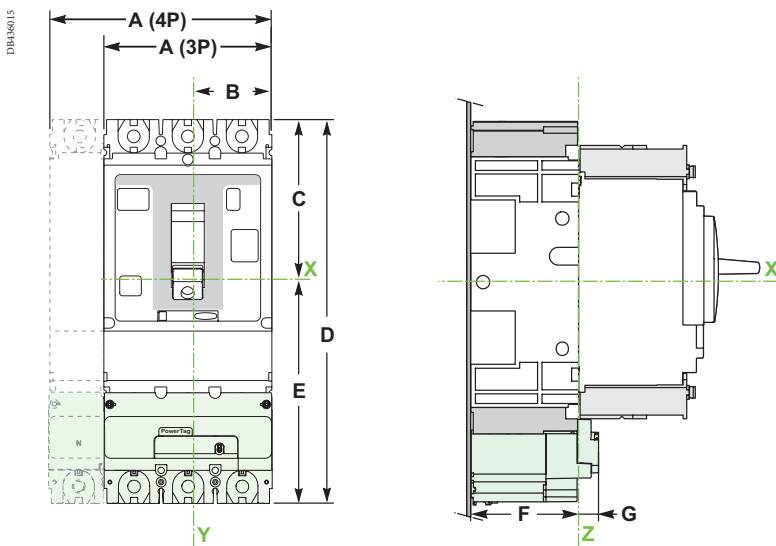


PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

NSX100-250 / NSX400-630 / CVS100-250 / CVS400-630



(1) Only for PowerTag M630



(1) Only for PowerTag M630

mm in	A		B	C	D	E	F	G	H		J		K	L	M		
	3P	4P							3P	4P	3P	4P					
NSX100-250	105	140	52.5	80.5	201	120.5	72	14	3 Ø6	6 Ø6	35	70	17.5	17.5	125	62.5	40
CVS 100-250	4.13	5.51	2.06	3.17	7.91	4.74	2.83	0.55	3 Ø0.23	6 Ø0.23	1.34	2.75	0.68	0.68	4.92	2.46	1.57
NSX400-630	140	185	70	127.5	320	192.5	96	14	6 Ø6	6 Ø6	45	90	22.5	22.5	200	100	65
CVS 400-630	5.51	7.28	2.75	5.02	12.59	7.57	3.78	0.55	6 Ø0.23	6 Ø0.23	1.77	3.5	0.88	0.88	7.87	3.93	2.56
NSX100-250 with plug-in base	105	140	52.5	109	260	151	72	14	3 Ø6	6 Ø6	35	70	17.5	17.5	155	77.5	55
	4.13	5.51	2.06	4.29	10.23	5.94	2.83	0.55	3 Ø0.23	6 Ø0.23	1.34	2.75	0.68	0.68	6.10	3.05	2.16
NSX400-630 with plug-in base	140	185	70	153	406	253	100	14	4 Ø6	6 Ø6	45	90	22.5	22.5	250	125	83
	5.51	7.28	2.75	6.02	15.98	9.96	3.93	0.55	4 Ø0.23	6 Ø0.23	1.77	3.5	0.88	0.88	9.84	4.92	3.26

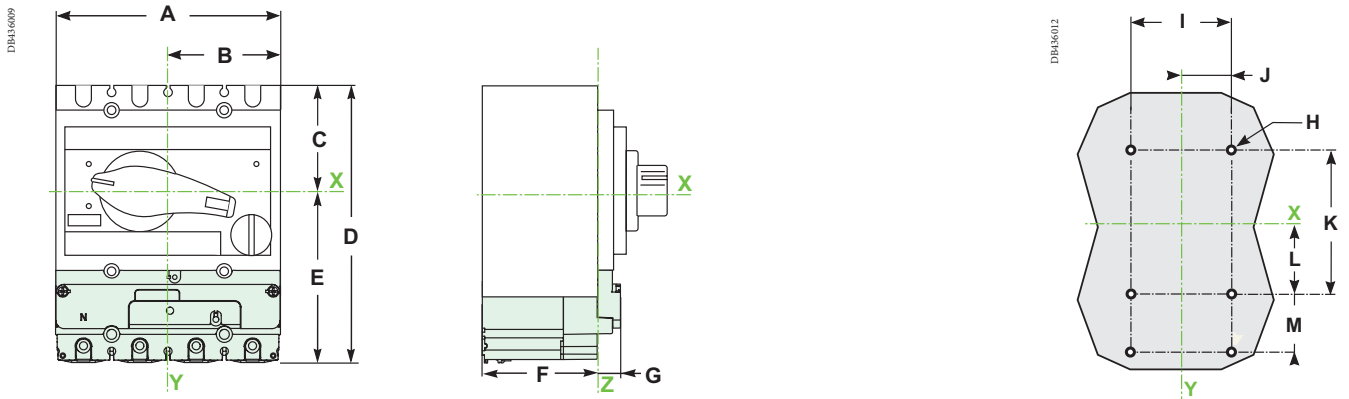
Please refer to PowerTag Energy 250 A & 630 A Installation Sheet for accurate and complete information on the installation of this product.



PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

INS250 / INV100-250

INS320-630 / INV320-630



mm in	A	B	C	D	E	F	G	H	I	J	K	L	M
INS250	140	70	68	176	108	72	14	6 Ø6	70	35	100	50	40
INV100-250	5.51	2.75	2.67	6.93	4.25	2.83	0.55	6 Ø0.23	2.75	1.37	3.93	1.96	1.57
INS320-630	185	92.5	102.5	270	167.5	96	14	6 Ø6	90	45	150	75	65
INV320-630	7.28	3.64	4.03	10.62	6.59	3.78	0.55	6 Ø0.23	3.5	1.77	5.9	2.95	2.56

PowerTag Energy Monoconnect 250 A & 630 A weight

Type	Weight (g)
M250 3P	250
M250 3P+N	300
M630 3P	800
M630 3P+N	1000

Please refer to PowerTag Energy 250 A & 630 A Installation Sheet for accurate and complete information on the installation of this product.



PowerLogic™ PowerTag Energy Rope 200 A to 2000 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

With its flexible and openable current sensors, this PowerTag Energy Rope can be installed easily on busbars and cables without having to disconnect the conductors, and is suitable for 3P or 3P+N networks. Its removable spring connector for voltage picking facilitates its installation, and the module can be mounted on a DIN rail or maintained with brackets where needed in a panel.

Main characteristics

PowerTag Energy Rope measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
 - Active energy (kWh): total and partial, delivered and received.
 - Active energy per phase (kWh): total and partial, delivered and received.
 - Reactive energy (kVARh): total and partial, delivered and received.
 - Reactive energy per phase (kVARh): total and partial, delivered and received.
 - Apparent energy (kVAh): total and partial.
 - Apparent energy per phase (kVAh): total and partial.
- Real-time measurement values:
 - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
 - Currents (A): per phase (I1, I2, I3), calculated neutral current when connected (IN).
 - Power:
 - Active power (W): total and per phase.
 - Reactive power (VAR): total and per phase.
 - Apparent power (VA): total and per phase.
 - Frequency (Hz).
 - Power factor: total and per phase.
- Voltage loss alarms:
 - PowerTag Energy Rope sensor sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
 - At “voltage loss”, PowerTag Energy Rope adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.



PowerTag Energy Rope



PowerTag Energy



Installation

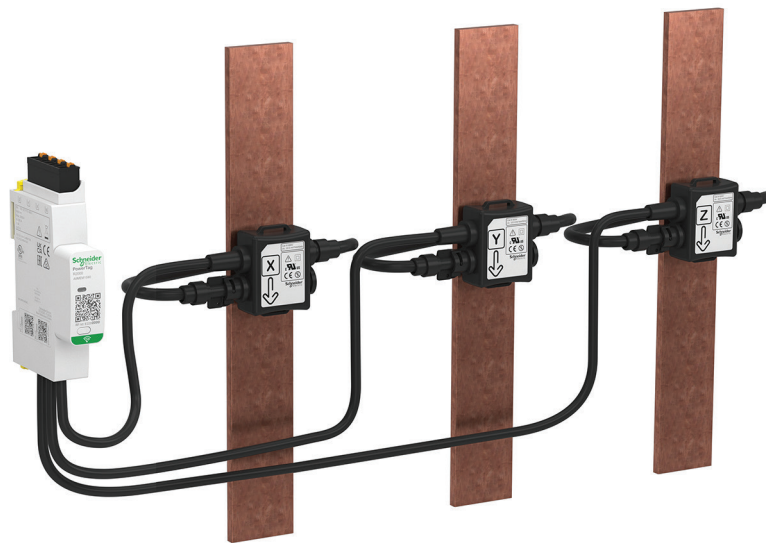
PowerTag Energy Rope 18 mm module can be mounted on DIN rail or fastened with brackets anywhere in a panel. Then its openable current sensors have to be installed around conductors, cables or busbars, whatever they are insulated or not. Voltage pickings removable spring terminal has to be wired by 1 copper wire per phase with following characteristics:

Wire range

Solid	Stranded	Stranded with terminal ends
0.2...1.5 mm ²	0.2...2.5 mm ²	0.25...1.5 mm ²
24...16 AWG	24...14 AWG	24...16 AWG

Neutral picking shall be connected to have phase-to-neutral voltages, energy per phase and power per phase provided.

PowerTag Energy Rope is mainly advised for ComPact NS, MasterPact NT and NW, MasterPact MTZ NA and HA, for retrofit, for group of loads, and for all other devices with a rating up to 2000 A.





PowerLogic™ PowerTag Energy Rope 200 A to 2000 A

Technical specifications

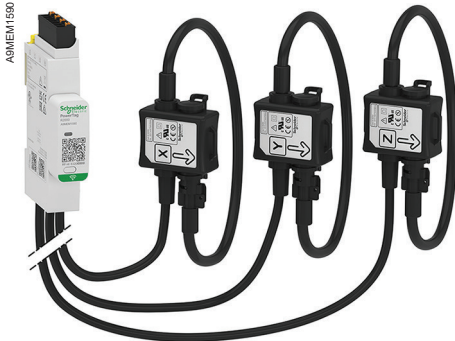
Main characteristics (as per IEC 61557-12)			
Rated voltage	Un	Phase-to-neutral	100...277 VAC ± 20 %
		Phase-to-phase	173...480 VAC ± 20 %
Frequency			50/60 Hz
Maximum current	I _{max}		200 A / 600 A / 1000 A / 2000 A
Maximum operating current			1.2 x I _{max}
Saturation current			2 x I _{max}
Maximum consumption			3 VA
Starting current	I _{st}		120 mA / 400 mA / 600 mA / 1.2 A
Basic current	I _b		30 A / 100 A / 150 A / 300 A
Additional characteristic			
Operating temperature			-25 °C to +70 °C
Maximum primary conductor temperature			105 °C ⁽²⁾
Storage temperature			-40 °C to +85 °C
Overvoltage category		As per IEC 61010-1	Cat. IV
Measuring category		As per IEC 61010-2-030	Cat. IV
Pollution degree			3
Altitude			Up to 2000 m without derating ⁽¹⁾
Degree of protection device			IP20 (IP40 front face) IK05
Radio-frequency communication			
ISM band 2.4 GHz			2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power		Equivalent (EIRP)	0 dBm
Maximum transmission time			< 5 ms
Channel occupancy		For 1 device	messages sent every 5 seconds
Characteristics of measuring functions			
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1) Class	Device measuring range (200 A / 600 A / 1000 A / 2000 A)
Total active power (Active power per phase)	P	1	29 W (10 W) to 240 kW / 96 W (32 W) to 720 kW / 144 W (48 W) to 1200 kW / 288 W (96 W) to 2400 kW
Total reactive power (Reactive power per phase)	Q _A	2	36 VAR (12 VAR) to 240 kVAR / 120 VAR (40 VAR) to 720 kVAR / 180 VAR (60 VAR) to 1200 kVAR / 360 VAR (120 VAR) to 2400 kVAR
Total apparent power (Apparent power per phase)	S _A	2	46 VA (15 VA) to 240 kVA / 154 VA (51 VA) to 720 kVA / 231 VA (77 VA) to 1200 kVA / 461 VA (154 VA) to 2400 kVA
Active Energy: per phase, total, partial, delivered and received	E _a	1	0 to 281.10 ⁹ kWh
Reactive energy: per phase, total, partial, delivered and received	E _{rA}	2	0 to 281.10 ⁹ kVARh
Apparent energy: per phase, total, partial	E _{apA}	2	0 to 281.10 ⁹ kVAh
Frequency	f	0.5	45 to 65 Hz
Phase current	I	1	120 mA to 400 A / 400 mA to 1200 A / 600 mA to 2000 A / 1.2 A to 4000 A
Neutral current	I _{NC}	2	
Voltages (Line to Line)	U	0.5	138 to 576 VAC
Power factor (per phase, total)	PF _A	1	-1 to 1

(1) Above 2000 m, please consult us.

(2) For higher value, please consult us.



PowerLogic™ PowerTag Energy Rope 200 A to 2000 A



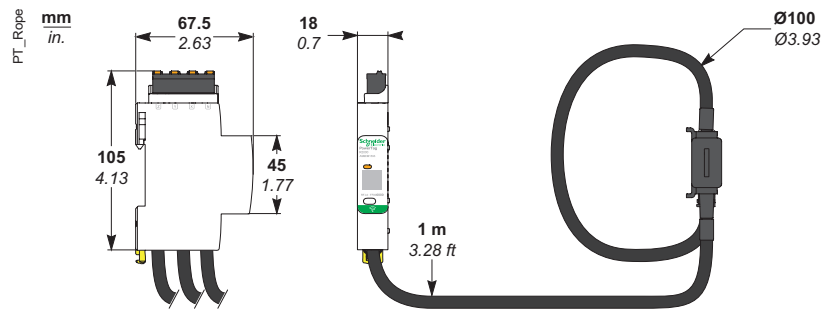
A9MEM1590●

PowerTag Energy Rope 200 A to 2000 A Commercial reference numbers

Commercial reference number	Type	Description	Certification
A9MEM1590	R200 3P/3P+N	Rope 200 A 3P / 3P+N	DNV
A9MEM1591	R600 3P/3P+N	Rope 600 A 3P / 3P+N	DNV
A9MEM1592	R1000 3P/3P+N	Rope 1000 A 3P / 3P+N	DNV
A9MEM1593	R2000 3P/3P+N	Rope 2000 A 3P / 3P+N	DNV

Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.

PowerTag Energy Rope 200 A to 2000 A dimensions



PowerTag Energy Rope 200 A to 2000 A weight

Type	Weight (g)
R200 3P/3P+N	360
R600 3P/3P+N	
R1000 3P/3P+N	
R2000 3P/3P+N	

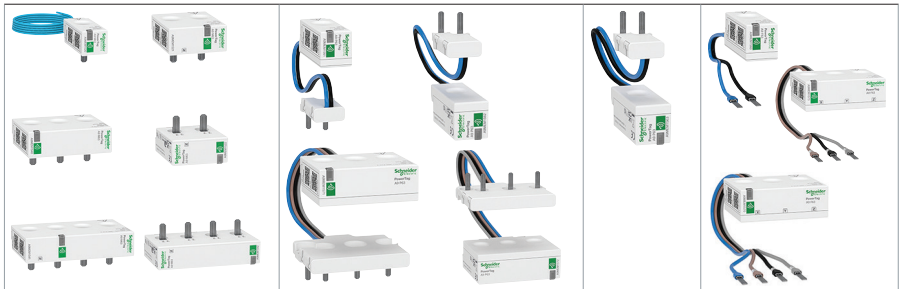
Contact your Schneider Electric representative for complete ordering information.
Please refer to PowerTag Energy Rope 200 A to 2000 A Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Circuit breakers					
iC60/iK60/DT60	Top	☑	-	-	-
	Bottom	☑	-	-	-
iC60 (double terminal)	Top	-	-	-	☑
	Bottom	-	-	-	☑
iC40	Top	-	☑	-	-
	Bottom	-	☑	-	-
DT40/iDPN/C40	Top	-	☑	-	-
	Bottom	-	☑	-	-
C120 ≤ 63 A NG125 ≤ 63 A	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)
iC65N-K (China) iC65 (China)	Top	☑	-	-	-
	Bottom	☑	-	-	-
iDPN (China)	Top	-	☑	-	-
	Bottom	-	☑	-	-
iKQ	Top	NA	-	-	-
	Bottom	☑	-	-	-
N40	Top	-	☑	-	-
	Bottom	-	☑	-	-
Reflex iC60	Top	☑	-	-	-
	Bottom	☑	-	-	-
Reflex XC40	Top	☑	-	-	-
	Bottom	-	-	-	☑ (1)
Multi9 OEM (C60BP/C60BPR/ C60SP) 3P 480VAC only	Top	-	-	-	☑ A9MEM1575 (UL/IEC)
	Bottom	-	-	-	-
Multi9 OEM (C60N/H/L)	Top	☑	-	-	-
	Bottom	☑	-	-	-
C32/C45/C60/C65/K60/T60	Top	☑	-	-	-
	Bottom	☑	-	-	-

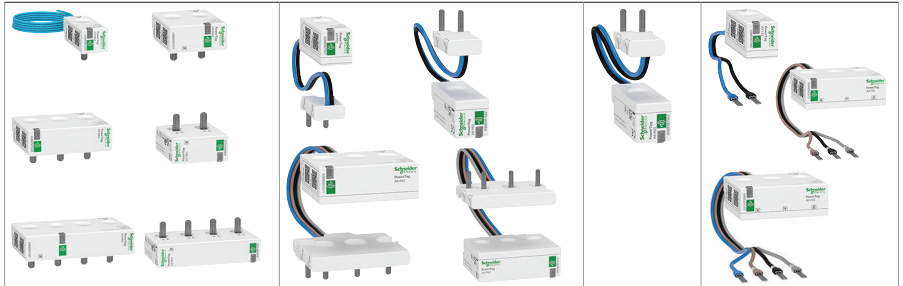
(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.
 (2) Product usually associated with a comb busbar

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Residual current devices					
iID/iID K	Top	✓	-	-	-
	Bottom	✓	-	-	-
iID (double terminal)	Top	-	-	-	✓
	Bottom	-	-	-	✓
iID40	Top	-	☑ (2) (1P+N)	-	☑ (2) (3P+N)
	Bottom	✓	-	-	-
iDPN Vigi "outgoer" 1P+N	Top	-	✓	-	-
	Bottom	-	✓	-	-
iC60H RCBO/iC60H2 RCBO/IKQE RCBO	Top	NA (fishbone)	-	-	-
	Bottom	-	-	✓	-
iC60 RCBO	Top	✓	-	-	-
	Bottom	✓	-	-	-
iCV40 "outgoer" 1P+N	Top	-	✓	-	-
	Bottom	-	✓	-	-
iCV40 "outgoer" 3P+N	Top	-	✓	-	-
	Bottom	-	-	-	✓
DPN Vigi/DT40 Vigi/C40 Vigi "outgoer" 1P+N	Top	-	✓	-	-
	Bottom	-	✓	-	-
DPN Vigi/DT40 Vigi/C40 Vigi/iDPN Vigi "outgoer" 3P+N	Top	-	✓	-	-
	Bottom	-	-	-	✓
DPN Vigi K	Top	-	-	-	✓ (1)
	Bottom	-	-	-	✓ (1)
N40 Vigi "outgoer"	Top	-	✓	-	-
	Bottom	-	✓	-	-
iDc/ITG40/C40	Top Left	-	✓	-	-
	Top Right	-	✓	-	-
DCP Vigi	Top	✓	-	-	-
	Bottom	✓	-	-	-
C60H RCBO (Multi9)	Top	NA (fishbone)	-	-	-
	Bottom	-	-	✓	-
ID ≤ 63 A/iID K biconnect/ ID Type B ≤ 63 A	Top	✓	-	-	-
	Bottom	✓	-	-	-
RED/REDS/REDTest	Top	-	-	-	✓ (1)
	Bottom	-	-	-	✓ (1)

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.

(2) Product usually associated with a comb busbar

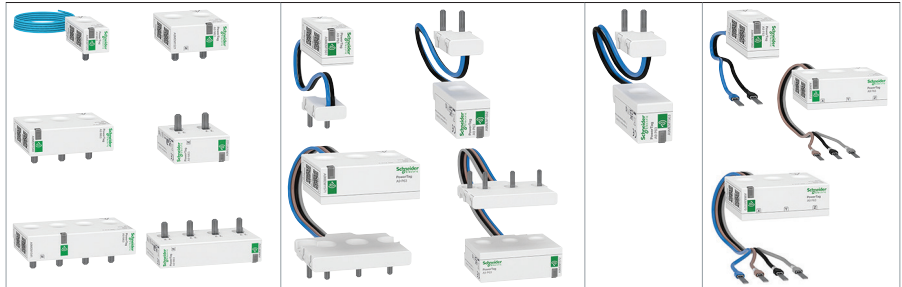
(*) Refer to the product catalog for technical characteristics.

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Switches					
iSW ≤ 63 A	Top	☑	-	-	-
	Bottom	☑	-	-	-
iSW-NA ≤ 63 A	Top	☑	-	-	-
	Bottom	☑	-	-	-
iSW 20/32 A	Top	-	-	-	☑
	Bottom	-	-	-	☑
i-NA ≤ 63 A	Top	☑	-	-	-
	Bottom	☑	-	-	-
NG125 NA ≤ 63 A	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)
Fuse disconnectors					
STI	Top	-	-	-	☑
	Bottom	-	-	-	☑
SBI 14x51/SBI 22x58 ≤ 63 A	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)
D01/D02	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.

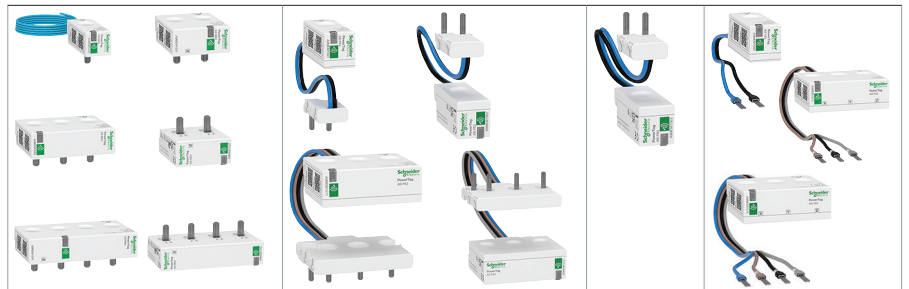
(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
TeSys					
Motor circuit breakers					
GV2	Top	-	-	-	☑ (1) (2)
	Bottom	-	-	-	☑ (1) (2)
GV3 ≤ 63 A	Top	-	-	-	☑ (1) (2)
	Bottom	-	-	-	☑ (1) (2)
Contactors					
TeSys D ≤ 63 A	Top	-	-	-	☑ Upstream only (1)
	Bottom	-	-	-	
TeSys K	Top	-	-	-	☑ Upstream only (1)
	Bottom	-	-	-	
Motor starter					
TeSys U	Top	-	-	-	☑ Upstream only (1)
	Bottom	-	-	-	

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.
 (2) PowerTag Energy sensors withstand motor starting in-rush currents. Environmental mission profile : Buildings as per 60721-3-3.

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 160 A



Products (AC network)		Mounting position	F160 3P / 3P+N
Acti9			
Circuit breakers			
C120 (with or without Vigi module)	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/>
NG125 (with or without Vigi module)	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/>
Residual current devices			
iID > 63 A	3P+N	Top / Bottom	<input checked="" type="checkbox"/>
RCCB-ID 125 A	3P+N	Top / Bottom	<input checked="" type="checkbox"/>
Fuse disconnectors			
SBI > 63 A	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/>
Switches			
NG125 NA	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/>
iSW > 63 A	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/>
iSW NA > 63 A	3P+N	Top / Bottom	<input checked="" type="checkbox"/>
ComPact			
Circuit breakers			
NSXm	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/> (5)
Switches			
NSXm NA	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/> (5)
INS 80/100/125/160	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/>
PowerPact			
Circuit breakers			
B	3P / 3P+N	Top / Bottom	<input checked="" type="checkbox"/> (6)
TeSys			
Motor circuit breakers			
GV3 > 65 A	3P	Top / Bottom	<input checked="" type="checkbox"/>
GV4	3P	Top / Bottom	<input checked="" type="checkbox"/>
Contactors			
63 A < TeSys D ≤ 160 A	3P / 3P+N	Top	<input checked="" type="checkbox"/> Upstream only
TeSys F ≤ 160 A	3P / 3P+N	Top	<input checked="" type="checkbox"/> Upstream only

(5) It is advised to use EverLink connectors with control wire terminal (LV426970 for 3P / LV426971 for 4P)

(6) It is advised to use EverLink connectors with control wire terminal (LV426974 for 3P / LV426975 for 4P)

(*) Refer to the product catalog for technical characteristics

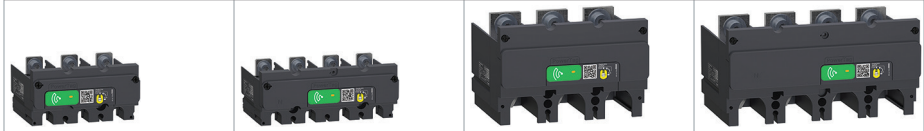
PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 250 A

PowerTag Energy 630 A



Products (AC network)	Mounting position		M250 3P	M250 3P+N	M630 3P	M630 3P+N
ComPact						
Circuit breakers						
NSX100/160/250 B/F/N/H/S/L/R/NA Fixed	3P	Bottom	☑	-	-	-
	4P	Bottom	-	☑	-	-
NSX400/630 F/N/H/S/L/R/NA Fixed	3P	Bottom	-	-	☑	-
	4P	Bottom	-	-	-	☑
NSX100/160/250 B/F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top / Bottom	☑	-	-	-
	4P	Top / Bottom	-	☑ (3)	-	-
NSX400/630 F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top / Bottom	-	-	☑ (4)	-
	4P	Top / Bottom	-	-	-	☑ (3) (4)
NS100/160/250 N/SX/H/L/NA Fixed	3P	Bottom	☑	-	-	-
	4P	Bottom	-	☑	-	-
NS400/630 N/H/L/NA Fixed	3P	Bottom	-	-	☑	-
	4P	Bottom	-	-	-	☑
NS100/160/250 N/SX/H/L/NA Plug-In (mounted on the base)	3P	Top / Bottom	☑	-	-	-
	4P	Top / Bottom	-	☑ (3)	-	-
NS400/630 N/H/L/NA Plug-In (mounted on the base)	3P	Top / Bottom	-	-	☑ (4)	-
	4P	Top / Bottom	-	-	-	☑ (3) (4)
Circuit breakers equipped with Vigi block						
NSX100/160/250 B/F/N/H/S/L/R/NA Fixed	3P	Bottom	☑	-	-	-
	4P	Bottom	-	☑	-	-
NSX400/630 F/N/H/S/L/R/NA Fixed	3P	Bottom	-	-	☑	-
	4P	Bottom	-	-	-	☑
NSX100/160/250 B/F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top	☑	-	-	-
NSX400/630 F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top	-	-	☑ (4)	-
Switches						
INS250/INV - 100/160/200/250	3P	Bottom	-	☑	-	-
	4P	Top / Bottom	-	☑ (3)	-	-
INS/INV - 320/400/500/630	3P	Bottom	-	-	-	☑
	4P	Top / Bottom	-	-	-	☑ (3)
TeSys						
Motor circuit breakers						
GV5, GV7	3P	Bottom	☑	-	-	-
GV6	3P	Bottom	-	-	☑	-
EasyPact						
Circuit breakers						
CVS100-250	3P	Bottom	☑	-	-	-
	4P	Bottom	-	☑	-	-
CVS400-630	3P	Bottom	-	-	☑	-
	4P	Bottom	-	-	-	☑

(3) neutral on the right when mounted on top side

(4) when plate mounted, need to add a 4 mm intercalary under the PowerTag module (see ComPact NSX catalog)

(§) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy Rope



Products (AC network)		Mounting position	R200 3P / 3P+N	R600 3P / 3P+N	R1000 3P / 3P+N	R2000 3P / 3P+N
ComPact						
Circuit breakers						
NS 630b	3P / 3P+N	Top / Bottom	-	☑	-	-
NS 800/1000	3P / 3P+N	Top / Bottom	-	-	☑	-
NS 1250/1600/1600b/2000	3P / 3P+N	Top / Bottom	-	-	-	☑
Switches						
INS/INV 630b	3P / 3P+N	Top / Bottom	-	☑	-	-
INS/INV 800/1000	3P / 3P+N	Top / Bottom	-	-	☑	-
INS/INV 1250/1600/2000	3P / 3P+N	Top / Bottom	-	-	-	☑
NS 630b NA	3P / 3P+N	Top / Bottom	-	☑	-	-
NS 800/1000 NA	3P / 3P+N	Top / Bottom	-	-	☑	-
NS 1250/1600/1600b/2000 NA	3P / 3P+N	Top / Bottom	-	-	-	☑
MasterPact						
Circuit breakers						
NT 06	3P / 3P+N	Top / Bottom	-	☑	-	-
NT 08/10	3P / 3P+N	Top / Bottom	-	-	☑	-
NT 12/16	3P / 3P+N	Top / Bottom	-	-	-	☑
NW 08/10	3P / 3P+N	Top / Bottom	-	-	☑	-
NW 12/16/20	3P / 3P+N	Top / Bottom	-	-	-	☑
Switches						
NT 06 HA	3P / 3P+N	Top / Bottom	-	☑	-	-
NT 08/10 HA	3P / 3P+N	Top / Bottom	-	-	☑	-
NT 12/16 HA	3P / 3P+N	Top / Bottom	-	-	-	☑
NW 08/10 NA/HA/HF	3P / 3P+N	Top / Bottom	-	-	☑	-
NW 12/16/20 NA/HA/HF	3P / 3P+N	Top / Bottom	-	-	-	☑
MTZ1 06 HA	3P / 3P+N	Top / Bottom	-	☑	-	-
MTZ1 08/10 HA	3P / 3P+N	Top / Bottom	-	-	☑	-
MTZ1 12/16 HA	3P / 3P+N	Top / Bottom	-	-	-	☑
MTZ2 08/10 NA/HA/HA10	3P / 3P+N	Top / Bottom	-	-	☑	-
MTZ2 12/16/20 NA/HA/HA10	3P / 3P+N	Top / Bottom	-	-	-	☑
TeSys						
Contactors						
TeSys D > 160 A	3P / 3P+N	Top	☑ Upstream only	-	-	-
160 A < TeSys F ≤ 2000 A	3P / 3P+N	Top	☑ Upstream only	☑ Upstream only	☑ Upstream only	☑ Upstream only
Others						
Circuit breakers / Switches / Motor circuit breakers						
All products below 200 A	3P / 3P+N	Top / Bottom	☑	-	-	-
All products between 200 A and 600 A	3P / 3P+N	Top / Bottom	-	☑	-	-
All products between 600 A and 1000 A	3P / 3P+N	Top / Bottom	-	-	☑	-
All products between 1000 A and 2000 A	3P / 3P+N	Top / Bottom	-	-	-	☑

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for concentrators / gateways compatibility*

Concentrators / gateways



	EcoStruxure™ Panel Server Entry, Universal and Advanced PAS400, PAS600/600L, PAS800	Harmony Hub ZBRN1 ZBRN2 ZBRN32	Smartlink SI B A9XMZA08 ⁽²⁾ Smartlink SI D A9XMWA20 ⁽²⁾	PowerTag Link A9XMWD20 ⁽²⁾ PowerTag Link HD A9XMWD100 ⁽²⁾
PowerTag Energy M63				
	A9MEM1520	✓	-	✓
	A9MEM1521	✓	-	✓
	A9MEM1522	✓	-	✓
	A9MEM1540	✓	-	✓
	A9MEM1541	✓	-	✓
	A9MEM1542	✓	-	✓
	A9MEM1543	✓	-	✓
PowerTag Energy M63 Resi9				
	R9M20	-	-	-
	R9M21	-	-	-
	R9M22	-	-	-
	R9M40	-	-	-
	R9M41	-	-	-
	R9M42	-	-	-
	R9M43	-	-	-
PowerTag Energy P63				
	A9MEM1561	✓	-	✓
	A9MEM1562	✓	-	✓
	A9MEM1563	✓	-	✓
	A9MEM1571	✓	-	✓
	A9MEM1572	✓	-	✓
PowerTag Energy F63				
	A9MEM1560	✓	✓	✓
	A9MEM1564	✓	-	✓
	A9MEM1570	✓	✓	✓
	A9MEM1573	✓	✓	✓
	A9MEM1574	✓	-	✓
	A9MEM1575	✓ (1)	-	-
PowerTag Energy F63 Resi9				
	R9M60	-	-	-
	R9M70	-	-	-

(1) From firmware release 2.4

(2) Discontinued Product

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for concentrators / gateways compatibility*

Concentrators / gateways






	Wisier Home Hub CCT501801	Wisier Hub CCT501901
PowerTag Energy M63		
	A9MEM1520	<input checked="" type="checkbox"/>
	A9MEM1521	<input checked="" type="checkbox"/>
	A9MEM1522	<input checked="" type="checkbox"/>
	A9MEM1540	<input checked="" type="checkbox"/>
	A9MEM1541	<input checked="" type="checkbox"/>
	A9MEM1542	<input checked="" type="checkbox"/>
	A9MEM1543	<input checked="" type="checkbox"/>
PowerTag Energy M63 Resi9		
	R9M20	<input checked="" type="checkbox"/>
	R9M21	<input checked="" type="checkbox"/>
	R9M22	<input checked="" type="checkbox"/>
	R9M40	<input checked="" type="checkbox"/>
	R9M41	<input checked="" type="checkbox"/>
	R9M42	<input checked="" type="checkbox"/>
	R9M43	<input checked="" type="checkbox"/>
PowerTag Energy P63		
	A9MEM1561	<input checked="" type="checkbox"/>
	A9MEM1562	<input checked="" type="checkbox"/>
	A9MEM1563	<input checked="" type="checkbox"/>
	A9MEM1571	<input checked="" type="checkbox"/>
	A9MEM1572	<input checked="" type="checkbox"/>
PowerTag Energy F63		
	A9MEM1560	<input checked="" type="checkbox"/>
	A9MEM1564	-
	A9MEM1570	<input checked="" type="checkbox"/>
	A9MEM1573	-
	A9MEM1574	-
	A9MEM1575	-
PowerTag Energy F63 Resi9		
	R9M60	<input checked="" type="checkbox"/>
	R9M70	<input checked="" type="checkbox"/>

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for concentrators / gateways compatibility*

Concentrators / gateways

					
		EcoStruxure™ Panel Server Entry, Universal and Advanced PAS400, PAS600/600L, PAS800●	Harmony Hub ZBRN1 ZBRN2 ZBRN32	Smartlink SI B A9XMZA08 ⁽²⁾ Smartlink SI D A9XMWA20 ⁽²⁾	PowerTag Link A9XMWD20 ⁽²⁾ PowerTag Link HD A9XMWD100 ⁽²⁾
PowerTag Energy F160					
	A9MEM1580	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
PowerTag Energy M250-M630					
	LV434020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	LV434021	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	LV434022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	LV434023	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PowerTag Energy R200-R600-R1000-R2000					
	A9MEM1590	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
	A9MEM1591	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
	A9MEM1592	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
	A9MEM1593	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>

(2) Discontinued Product

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for concentrators / gateways compatibility*

Concentrators / gateways

			
		Wiser Home Hub CCT501801	Wiser Hub CCT501901
PowerTag Energy F160			
	A9MEM1580	-	-
PowerTag Energy M250-M630			
	LV434020	-	-
	LV434021	-	-
	LV434022	-	-
	LV434023	-	-
PowerTag Energy R200-R600-R1000-R2000			
	A9MEM1590	-	-
	A9MEM1591	-	-
	A9MEM1592	-	-
	A9MEM1593	-	-

(*) Refer to the product catalog for technical characteristics

Wireless Products

Schneider Electric offers a range of wireless products designed for new builds or retrofit installations. These are reliable, low-cost and easy to use wireless solutions with long battery life that does not compromise performance

- PowerLogic™ PowerTag Control
- PowerLogic™ HeatTag



A9XMC2D3



SMT10020



PowerLogic™ PowerTag Control

PowerTag Control monitors circuits wirelessly, collecting status of daisy-chained circuit breakers and notifying the data concentrator of information status, such as OF, SD, Contractor or Impulse Relay position indication. These wireless input/output modules allow circuit control and status monitoring. Designed for use in commercial and building applications, they quickly and easily turn your distribution board into a connected panel.

PowerTag Control also connects to pulse relays or contactors for remote control within a building management system for non-critical loads, such as lighting.

Applications:

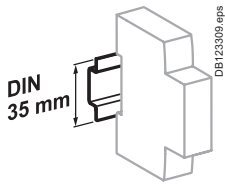
- Monitors your electrical installation from main incomer down to load level
- Suitable for various business, buildings, industrial and residential applications with easy integration in upper systems
- Supports and enables Energy efficiency programs and standards such as:
 - European Energy Efficiency Directive (EED)
 - Energy Performance of Buildings Directive (EPBD)
 - IEC 60364-8-1 “Low Voltage Electrical installations - Energy Efficiency”
 - EN 17267 “Energy Measurement and Monitoring plan”
 - ISO 50001 “Energy Management System”

A9XMC2D3 Image2

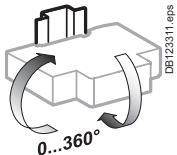


A9XMC2D3

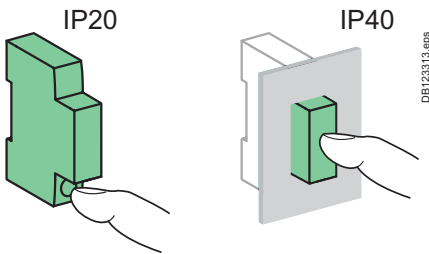
PowerTag Control



Clip on DIN rail 35 mm.



Indifferent position of installation.

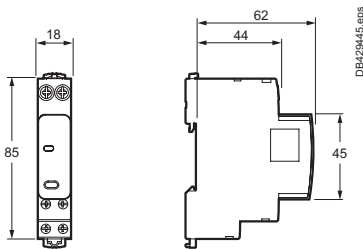


Technical characteristics

Main characteristics		
Power supply		230 V AC ± 20%
Frequency		50/60 Hz
Maximum consumption	IO	≤ 2 VA
	2DI	≤ 3 VA
Operating temperature		-25°C to +60°C
Storage temperature		-40°C to +85°C
Relative humidity (60068-2-78)		93 % at 40°C
Overvoltage category	As per IEC 61010-1	Cat. III
Altitude		≤ 2000 m
Pollution degree		3
Degree of protection according to IEC 60529	Front face	IP40
	Casing	IP20
	IK	05
Characteristics of inputs and outputs		
Digital input		
Type		230 V AC, dry contact
Digital output		
Type		230 V AC, dry contact
Relay type		Normally open or normally closed ⁽³⁾
Applicable voltage on output		230 V AC ± 20%
Minimum/maximum current on output		10 mA / 2 A
Type of output order		Pulse or latch ⁽³⁾
Pulse length in control mode with impulse relay		Nominal: 300 ms
Radio-frequency communication		
ISM band 2.4 GHz		2.4 GHz to 2.4835 GHz
Channels	As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power	Equivalent (EIRP)	0 dBm
Channel occupancy	Messages sent	■ On event
		■ Periodically (5s nominal)

(3) Setting adjustable

Dimensions (mm)



Weight (g)

PowerTag C	
PowerTag C IO 230 V	80
PowerTag C 2DI 230 V	75

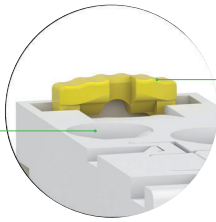
Connection

	Terminals	Tightening torque	Copper cables		
			Rigid	Flexible	Flexible with ferrule
	Power supply (Top)	2 N.m	1 to 16 mm ² (AWG: 18...6)	0.5 to 10 mm ² (AWG: 21...8)	-
	Input/Output (Bottom)	1 N.m	1x: 1 to 6 mm ² (AWG: 18...10) 2x: 1.5 to 2.5 mm ² (AWG: 16...14)	1x: 0.5 to 4 mm ² (AWG: 21...12) 2x: 1.5 to 2.5 mm ² (AWG: 16...14)	1x: 0.5 to 4 mm ² (AWG: 21...12) 2x: -

PowerTag Control

PowerTag C IO module

- Compatible with horizontal comb busbars 9 mm modules
- Automatic cable guiding in the correct position: terminals with guard

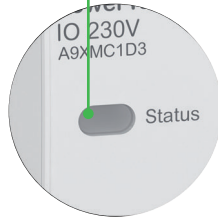


DB430239.eps

- Assembly and disassembly by operating toggle latches at the top and bottom of the products

Status LED

- Provide information about PowerTag C status



DB430240.eps

- Insulated terminals IP20



A9XMC1D3_image2.45.eps

Logo

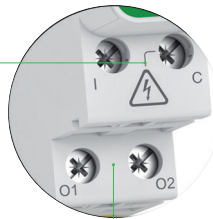
- Wireless communication device



DB430241.eps

Push button

- Local output control
- Decommissioning



DB430238.eps

Monitoring / Back loop circuit

- "I" digital input terminal
- "C" common powered terminal 230 V AC

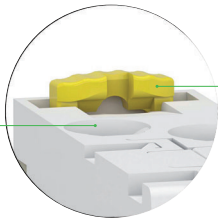
Control circuit

- Logical output relay
- "O" output terminals 230 V AC - 2 A max.

PowerTag Control

PowerTag C 2DI module

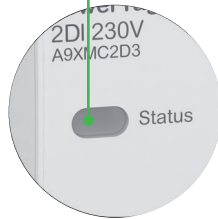
- Compatible with horizontal comb busbars 9 mm modules
- Automatic cable guiding in the correct position: terminals with guard



DB430243.eps

- Assembly and disassembly by operating toggle latches at the top and bottom of the products

- Status LED**
- Provide information about PowerTag C status



DB430244.eps

- Insulated terminals IP20



A9XMC2D3_image2.45.eps

- Logo**
- Wireless communication device



DB430245.eps

- Flush mounted push button**
- Decommissioning



DB430242.eps

- Monitoring circuits**
- "I" digital input terminals
 - "C" common powered terminals 230 V AC

PowerLogic™ HeatTag

Wireless Sensor for early detection of overheating cables

The PowerLogic™ HeatTag sensor analyzes gas and airborne particles helping facility manager to anticipate and act before smoke appears or an electrical fire starts.

Electrical fires generate huge losses in commercial and industrial buildings, interrupting production and delaying service delivery. These losses can be prevented if early detection of component overheating is accurately detected and alarmed.

PowerLogic™ HeatTag helps prevent electrical cabinets from being damaged by analyzing airborne gas and particles and sending alerts before smoke appears or an electrical fire starts. HeatTag is much more than a fire or smoke detector - it scientifically detects overheating in electrical installations before any damage is done.



PE1 20668



SMT10020

The solution for

Markets that can benefit from a solution that includes PowerLogic™ HeatTag smart sensors:

- Buildings
- Industry
- Healthcare
- Data Center and networks
- Infrastructure

Benefits

System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness
- Seamless integration with EcoStruxure™ solutions

Panel builders' benefit

- No settings
- Nominal environment auto-learning to avoid false alerts
- Concentrator auto-discovery
- Alerts generated by a powerful algorithm integrated in HeatTag

End users' benefit

- Ease of use
- Prevents fire damage and associated costs
- Comprehensive, consistent and superior performance
- Maximize uptime, eliminate faults, and enhance safety

Competitive advantages

- Easy to install and operate
- Suitable for non forced ventilated cabinets \geq IP31
- Immediately detects overheating in cables and connections
- More than a smoke detector or heat sensor
- 3 levels of alert recording
- Monitors air quality index
- Continuous improvements of algorithms

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximize electrical network reliability and availability, and optimize electrical asset performance.

Conformity of standards

- IEC/UL 61010-1
- IEC 61010-2-201
- IEC 61326-1
- IEC61326-2-3
- ETSI EN 301 489-1
- ETSI EN 301 489-17
- ETSI EN 300 328
- EN 62311
- EN IEC 63000
- IEEE 802.15.4 protocol
- FCC and IC certified

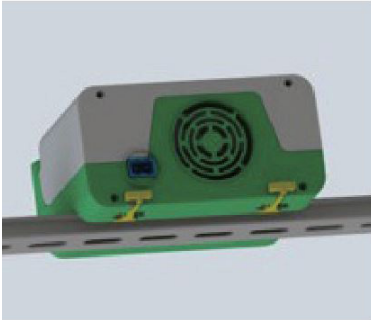
HeatTag sensors

PB120568



PowerLogic™ HeatTag sensor

PB120569



HeatTag rear view showing fan

PB120570



HeatTag sensor DIN mounted



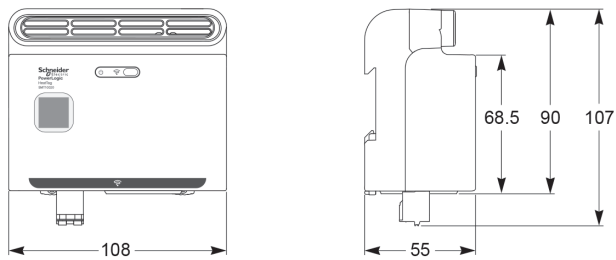
Q1
110–277 V~
2 A
C Curve or Fast-acting fuse

L N

HeatTag features

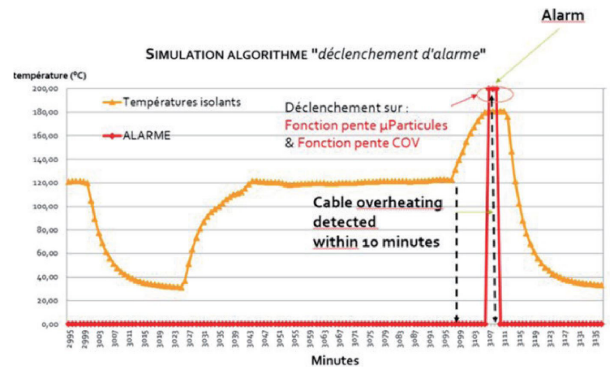
Sensor Characteristics		
Temperature measurement	Measurement range	-15 °C / +70 °C (5 °F to 158 °F)
	Measurement accuracy	-1.1 °C / +1.1 °C
	Default transmission period	60 seconds (higher in case of high wireless data traffic)
Humidity measurement	Measurement range	15–90 %
	Measurement accuracy	±9 RH %
	Default transmission period	60 seconds (higher in case of high wireless data traffic)
Air quality	Index (0 to 10), alert generation when index ≥10	
Test alert after pairing	During first 30 minutes	
Environment auto-learning phase	8 hours after the first 30 minutes	
Mechanical Characteristics		
Dimensions (W x H x D)		108 x 107 x 55 mm
Weight		270 g
Degree of protection (IEC 60529)		IP 20
Electrical Characteristics		
Supply voltage		110–277 V AC, -15 % / +15 %
Frequency		50–60 Hz
Max. consumption		0.1 A
Operating temperature		-15 °C / +70 °C (5 °F to 158 °F)
Storage temperature		-20 °C / +85 °C (-4 °F to 185 °F)
Relative humidity in operation		15–90 %
Altitude of use		0–2000 m (0–6500 ft)
Degree of pollution (IEC 60664-1)		3
Overvoltage category		OVC III
Commercial Reference Number		
PowerLogic™ HeatTag Sensor		SMT10020

PB120573



HeatTag sensor dimensions. See the appropriate Installation Guide.

PB120572



HeatTag simulation algorithm display

NOTE: Do not use HeatTag as a safety device or to replace fire protection devices. Please see the appropriate User Guide for this product.

Basic Multi-function Metering

A range of meters designed for cost management and simple network management. Affordable to buy and easy to choose, the highly-capable PowerLogic™ PM5000 and PM5350 series meters are designed to provide the best combination of features to match all your energy cost management needs.

As well as pin-point energy savings, optimal equipment efficiency and utilisation, basic multi-function meters perform a high level assessment of the power quality in an electrical network.

- PowerLogic™ PM5000
- PowerLogic™ PM5350
- PowerLogic™ PM5350IB
- PowerLogic™ PM5350PB
- PowerLogic™ PM5350P



METSEPM5110



METSEPM5560

PowerLogic™ PM5000 series

The PowerLogic™ PM5000 series power meters are the new benchmark in affordable, precision metering.

The value you want, the precision you need. Compact, affordable power meters with high-end cost capabilities and basic mobile energy management.

Applications

Capable of essential cost management:

- Sub-billing/tenant metering ⁽⁺¹⁾
- Equipment sub-billing
- Energy cost allocation

Also ideal for electrical network management:

- Track real-time power conditions
- Monitor control functions
- Provide basic power quality values
- Detect and capture voltage sag and swell events
- Monitor residual current
- Analyze equipment and network status
- BACnet/IP, EtherNet/IP, and DNP3.0 protocol support



⁽⁺¹⁾ Subjected to local regulations.

The solution for

Markets that can benefit from a solution that includes PowerLogic™ PM5000 series meters:

- Buildings
- Industry
- Healthcare
- Data Center and networks
- Infrastructure

Benefits

System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness

Panel builders' benefit

- Ease of installation
- Cost effectiveness
- Aesthetically pleasing
- Simplified ordering
- Low Voltage DC control power option
- Analog inputs options

End users' benefit

- Ease of use
- Precision metering & sub-billing ⁽⁺²⁾
- Billing flexibility
- Comprehensive, consistent and superior performance
- Maximize uptime, eliminate faults, and enhance safety
- Cybersecurity features

Competitive advantages

- Easy to install and operate
- Easy for circuit breaker monitoring and control
- WAGES monitoring
- Data logging up to 16 parameters
- Power quality analysis up to 63rd harmonics
- Load management combined with alarm and timestamping
- High performance and accuracy
- Residual Current Monitoring (RCM) in PM56xx⁽⁺⁴⁾ and PM57xx⁽⁺⁴⁾
- Voltage sag and swell detection with waveform capture
- MID ready compliance for legal billing application
- Onboard BACnet/IP, EtherNet/IP, and DNP3.0 protocol support
- PM5310R ⁽⁺³⁾ and PM5320R ⁽⁺³⁾ are enabled to connect with LVCT for faster installations

⁽⁺²⁾ Subjected to local regulations.

⁽⁺³⁾ PM5310R and PM5320R must be used with Schneider Electric's "Quick Click" 3-in-1 LVCTs.

⁽⁺⁴⁾ PM5660, PM5661, PM5760, PM5761 must be used with Toroids.

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximize electrical network reliability and availability, and optimize electrical asset performance.

Conformity of standards

- BS/EN/IEC 61557-12:2018/AMD1:2021
- BS/EN/IEC 62052-11:2020 edition 2
- IEC 62052-31:2015
- BS/EN/IEC 62053-22:2020 edition 2
- BS/EN/IEC 62053-23:2020 edition 2
- IEEE 802.3
- EN 50470-1:2006
- EN 50470-3:2006
- CE and UKCA as per IEC/BS 61010-1 edition 3
- cULus as per UL 61010-1 edition 3
- BS/EN/IEC 61010-2-30:2017
- BS/EN/IEC 61326-1: edition 3
- FCC part 15 Class B
- EN 55022 Class B
- BACnet/IP - BTL listed (B-ASC)
- EtherNet/IP - ODVA certified
- ANSI C12.1-2008 (PM55xx)
- ANSI C12.20 Class 0.2 & 0.5
- Align with cyber security guidelines as per IEC 62443
- Type A as per IEC 62020 for RCM

Meets IEC 61557-12 PMD/[SD/SS]/K70/0.5 for PM5100 and PM5300

Meets IEC 61557-12 PMD/[SD/SS]/K70/0.2 for PM5500, PM5600, PM5700

- Legal billing compliance
 - MID compliance is compulsory for billing applications across Europe
 - In addition to billing applications, for facility managers responsible for energy cost
 - MID means same level of quality as a billing meter

MID Certified according to MID Directive, Annex "B" + Annex "D" for legal metrology relevant to active electrical energy meters (see Annex MI-003 of MID). Can be used for fiscal (legal) metrology.

MID ready compliance, EN 50470-1/3 – Class C

PM5000 series

PowerLogic™ PM5100, PM5300 and PM5500 series

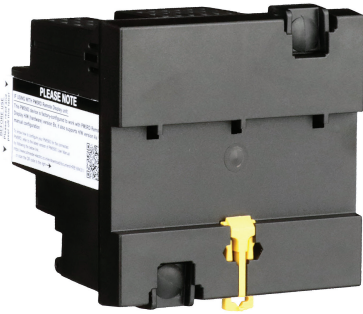
The PowerLogic™ PM5000 power meter is the ideal fit for cost management applications. Designed for use in both energy management systems and building management systems, it provides the measurement capabilities needed to allocate energy usage, perform tenant metering and sub-billing, pin-point energy savings, optimize equipment efficiency and utilization, and perform a high level assessment of the power quality of the electrical network.

In a single 96 x 96 mm unit, with a graphical display, (plus optional remote display) all three phases, neutral and ground can be monitored simultaneously. The bright, anti-glare display features large characters and powerful backlighting for easy reading even in extreme lighting conditions and viewing angles. Easy to understand menus, text in 8 selectable languages, icons and graphics create a friendly environment to learn about your electrical network. Ethernet gateway and enhanced cyber security. These are highly accurate devices with global billing certifications.

Applications

- **Cost management:** Cost saving opportunities become clear once you understand how and when your facility uses electricity. The PowerLogic™ PM5000 series meters are ideal for:
 - Sub-billing / tenant metering: Allows a landlord, property management firm, condominium association, homeowners association, or other multi-tenant property to bill tenants for individual measured utility (electricity) usage depending on the local regulations. MID approved meters for billing applications across Europe.
 - Cost allocation: Allocate energy costs between different departments (HVAC, indoor and outdoor lighting, refrigeration, etc.), different parts of an industrial process or different cost centres. Cost allocation systems can help you save money by making changes to your operation, better maintaining your equipment, taking advantage of pricing fluctuations, and managing your demand.
- **Network management:** Improving reliability of the electrical network is key for success in any business. Monitoring values such as voltage levels, harmonics distortions, voltage unbalance, residual current, voltage sag and swell will help you to ensure proper operation and maintenance of your electrical network and equipment. PowerLogic™ PM5000 series meters are the perfect tool for:
 - Basic Power Quality monitoring: Power quality phenomena can cause undesirable effects such as heating in transformers, capacitors, motors, generators and misoperation of electronic equipment and protection devices.
 - Min/ Max monitoring (with timestamp): Understanding when electrical parameters, such as voltage, current and power demand, reach maximum and minimum values will give you the insight to correctly maintain your electrical network and assure equipment will not be damaged.
 - Alarming: alarms help you to be aware of any abnormal behaviour on the electrical network in the moment it happens.
 - WAGES monitoring: take advantage of the input metering on PM5000 meters to integrate measurements from third party devices such as water, air, gas, electricity or steam meters.
 - Residual current monitoring: measures leakage current flowing in TN & TT network system.
 - Voltage sags and swells: measures and captures wave form in the event of voltage sags and swells in the network.
- **Main characteristics**
 - Easy to install
 - Mounts using two clips, in standard cut out for DIN 96 x 96 mm, no tools required. Compact meter with 72 mm (77 mm for PM5500) depth connectable up to 690 V L-L without voltage transformers for installations compliant with category III. Optional remote display (PM5563). Ethernet gateway functionality via RS-485 port.
 - Easy to operate
 - Intuitive navigation with self-guided, language selectable menus, six lines, four concurrent values. Two LEDs on the meter face help the user confirm normal operation with a green LED - heartbeat/communications indicator, and the amber LED - customizable either for alarms or energy pulse outputs. Onboard web pages (PM5500) show real-time and logged information, and verify communications.
 - Easy circuit breaker monitoring and control
 - The PM5300 provides two relay outputs (high performance Form A type) with capability to command most of the circuit breaker coils directly. For Digital Inputs, monitored switches can be wired directly to the meter without external power supply by using whetting output voltage.
 - PM5500 series have 4 status inputs (digital) and 2 digital output (solid state) to use for WAGES monitoring, control and alarm annunciation.

PB118062



PowerLogic™ PM5563 meter

PB118063



PowerLogic™ PM5563 remote display front ISO

PB118064



PowerLogic™ PM5563 remote display rear ISO

Accurate energy measurement for precise cost allocation:

	PM5100	PM5300	PM5500	PM5600	PM5700
IEC 62053-22 (Active Energy)	Class 0.5S	Class 0.5S	Class 0.2S	Class 0.2S	Class 0.2S
IEC 62053-23 (Reactive Energy)	Class 1.0	Class 1.0	Class 1.0	Class 1.0	Class 1.0

PM5000 series

PB111777



PowerLogic™ PM5500 meter

PB111772



PowerLogic™ PM5300 meter

PB111768



PowerLogic™ PM5100 meter

Native multi-protocol support

The PM55/PM56/PM5700 is now easier than ever to integrate into new and existing BMS systems. With native BACnet/IP protocol support, meters can simultaneously communicate via BACnet and Modbus in applications where multiple software systems are used (building management and energy management systems).

The PM55/PM56/PM5700 series has been tested and certified in accordance with BACnet Testing Laboratories (BTL) requirements and Ethernet IP protocol as per ODVA requirements.

- PM55/PM56/PM5700 Direct metering of neutral current
 - The PM55/PM56/PM5700 has a fourth CT for measuring neutral current. In demanding IT applications, where loads are non-linear (i.e. switching power supplies on computers/servers), measuring neutral current is essential to avoid overload and resulting outage.
 - Power Quality analysis
 - The PM5000 offers Total Harmonic Distortion (THD/thd), Total Demand Distortion (TDD) measurements and individual harmonics (odd) magnitudes and angles for voltage and current:

	PM5100	PM5300	PM55/56/5700
Individual Harmonics	magnitudes up to 15 th	magnitudes up to 31 st	magnitudes & angles up to 63 rd

- These types of power quality parameters help to identify the source of harmonics that can harm transformers, capacitors, generators, motors and electronic equipment.
- Load management
 - Peak demands with time stamping are provided. Predicted demand values can be used in combination with alarms for basic load shedding applications.
- Alarming with time stamping
 - A different combination of set point driven alarms and digital alarms with 1s time stamping are available in the PM5000 family:

	PM5100	PM5300	PM55/56/5700
Set point driven alarms	29	29	29 or 33*
Unary	4	4	4
Digital	-	2	4 or 2
Boolean / Logic	-	-	10
Custom defined	-	-	5

*Applicable in specific meter models. 2 alarms for disturbance (Sag/ Swell).

- Alarms can be visualized as Active (the ones that have picked up and did not drop out yet) or Historical (the ones that happened in the past). Alarms can be programmed and combined to trigger digital outputs and mechanical relays (PM5300).
- The PM5000 series keeps an alarm log with the active and historical alarms with date and time stamping. SMTP protocol for receiving alarm conditions via email and text. SNTP protocol for date/time network synchronization.
- Load timer
 - A load timer can be set to count load running hours based on a minimum current withdraw, adjustable to monitor and advise maintenance requirements on the load.
- High Performance and accuracy
 - IEC 61557-12 Performance measuring and monitoring devices (PMD). Defines the performance expectation based on classes. It defines the allowable error in the class for real and reactive power and energy, frequency, current, voltage, power factor, voltage unbalance, voltage and current harmonics (odds), voltage THD, current THD, as well as ratings for temperature, relative humidity, altitude, start-up current and safety. It makes compliant meters readings comparable - they will measure the same values when connected to the same load.

PM5000 series

PM5000 series feature selection

	PM5100		PM5300					
	PM5100	PM5110	PM5310	PM5310R ⁽⁺⁵⁾	PM5320	PM5320R ⁽⁺⁵⁾	PM5330	PM5340
Installation								
Fast installation, panel mount with integrated display	■	■	■	■	■	■	■	■
Fast installation, DIN rail mountable	–	–	–	–	–	–	–	–
Accuracy								
Class	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S
Display								
Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values	■	■	■	■	■	■	■	■
Power and energy metering								
3-ph voltage, current, power, demand, energy, frequency, power factor	■	■	■	■	■	■	■	■
Multi-tariff	–	–	4	4	4	4	4	4
MID ready compliance, EN50470-1/3, Annex B & Annex D Class C	–	PM5111	–	–	–	–	PM5331	PM5341
Power quality analysis								
THD, thd, TDD	■	■	■	■	■	■	■	■
Harmonics, individual (odd) up to	15th	15th	31st	31st	31st	31st	31st	31st
Waveform capture & sag/swell detection	–	–	–	–	–	–	–	–
I/Os and relays								
Digital inputs/ Digital output	1DO	1DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO
Relays	–	–	–	–	–	–	2	2
Analog inputs	–	–	–	–	–	–	–	–
Residual Current inputs	–	–	–	–	–	–	–	–
Alarms and control								
Alarms	33	33	35	35	35	35	35	35
Set point response time, seconds	1	1	1	1	1	1	1	1
Single and multi-condition alarms	–	–	■	■	■	■	■	■
Boolean alarm logic	–	–	–	–	–	–	–	–
Memory for data logging	–	–	256KB	256KB	256KB	256KB	256KB	256KB
Communications								
Serial ports with modbus protocol	–	1	1	1	–	–	1	–
Ethernet port with Modbus TCP protocol	–	–	–	–	1	1	–	1
BACnet/IP protocol	–	–	–	–	■	■	–	■
EtherNet/IP protocol	–	–	–	–	–	–	–	–
DNP3.0 over Ethernet	–	–	–	–	–	–	–	–
Onboard web server with web pages	–	–	–	–	–	–	–	–
Serial to Ethernet gateway	–	–	–	–	–	–	–	–
Ref. number followed with METSE*	PM5100	PM5110	PM5310	PM5310R ⁽⁺⁵⁾	PM5320	PM5320R ⁽⁺⁵⁾	PM5330	PM5340

*See table below for complete commercial reference numbers

⁽⁺⁵⁾ PM5310R and PM5320R must be used with Schneider Electric's "Quick Click" 3-in-1 LVCTs

PM5000 series

PM5000 series feature selection

	PM5500					PM5600		PM5700
	PM5560	PM5563	PM5563RD	PM5570	PM5580	PM5650	PM5660	PM5760
Installation								
Fast installation, panel mount with integrated display	■	–	–	■	■	■	■	■
Fast installation, DIN rail mountable	–	■	■	–	–	–	–	–
Accuracy								
Class	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S
Display								
Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values	■	–	■	■	■	■	■	■
Power and energy metering								
3-ph voltage, current, power, demand, energy, frequency, power factor	■	■	■	■	■	■	■	■
Multi-tariff	8	8	8	8	8	8	8	8
MID ready compliance, EN50470-1/3, Annex B & Annex D Class C	PM5561	–	–	–	–	–	PM5661	PM5761
Power quality analysis								
THD, thd, TDD	■	■	■	■	■	■	■	■
Harmonics, individual (odd) up to	63 rd	63 rd	63 rd	63 rd	63 rd	63 rd	63 rd	63 rd
Waveform capture & sag/swell detection	–	–	–	–	–	8 cycles @ 128 samples/cycle	–	8 cycles @ 128 samples/cycle
I/Os and relays								
Digital inputs/ solid state Digital output	4DI/2DO	4DI/2DO	4DI/2DO	2DI/2DO	4DI/2DO	4DI/2DO	2DI/2DO	2DI/2DO
Relays	–	–	–	–	–	–	–	–
Analog inputs	–	–	–	2	–	–	–	–
Residual Current inputs	–	–	–	–	–	–	2	2
Alarms and control								
Alarms	52	52	52	50	52	54	54	56
Set point response time, seconds	1	1	1	1	1	1	1	1
Single and multi-condition alarms	■	■	■	■	■	■	■	■
Boolean alarm logic	■	■	■	■	■	■	■	■
Memory for data logging	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB
Communications								
Serial ports with modbus protocol	1	1	1	1	1	1	1	1
Ethernet port with Modbus TCP protocol	2 ⁽⁺⁶⁾	2 ⁽⁺⁶⁾	2 ⁽⁺⁶⁾	2 ⁽⁺⁶⁾	2 ⁽⁺⁶⁾	2 ⁽⁺⁶⁾	2 ⁽⁺⁶⁾	2 ⁽⁺⁶⁾
BACnet/IP protocol	■	■	■	■	■	■	■	■
EtherNet/IP protocol	■	■	■	■	■	■	■	■
DNP3.0 over Ethernet	■	■	■	■	■	■	■	■
Onboard web server with web pages	■	■	■	■	■	■	■	■
Serial to Ethernet gateway	■	■	■	■	■	■	■	■
Ref. numbers with METSE*	PM5560	PM5563	PM5563RD	PM5570	PM5580	PM5650	PM5660	PM5760
*See table below for complete commercial reference numbers								

⁽⁺⁶⁾ 2 Ethernet ports for daisy chain, one IP address.

PM5000 series

PM5000 technical specifications

		PM5100	PM5300	PM5500	PM5600	PM5700
Use on LV and MV systems				■		
Basic metering with THD and min/max readings				■		
Instantaneous rms values						
Current	Average, per phase, neutral and ground (PM5500)			■		
Voltage	Average, per phase L-L and L-N			■		
Frequency	Any available phase			■		
Real, reactive, and apparent power	Total and per phase			Signed, Four Quadrant		
True Power Factor	Average and per phase			Signed, Four Quadrant		
Displacement PF	Average and per phase			Signed, Four Quadrant		
% Unbalanced I, V L-N, V L-L				■		
Direct monitoring of neutral current		-		■	■	■
Energy values						
Accumulated Active, Reactive and Apparent Energy		Received/Delivered; Net and absolute; Time Counters				
Demand value						
Current average		Present, Last, Predicted, Peak, and Peak Date Time				
Active power		Present, Last, Predicted, Peak, and Peak Date Time				
Reactive power		Present, Last, Predicted, Peak, and Peak Date Time				
Apparent power		Present, Last, Predicted, Peak, and Peak Date Time				
Peak demand with timestamping D/T for current and three powers				■		
Demand calculation	Sliding, fixed and rolling block, thermal methods			■		
Synchronisation of the measurement window to input, communication command or internal clock				■		
Settable Demand intervals				■		
Demand synchronization with pulse input		-			■	
Other measurements						
I/O timer				■		
Operating timer				■		
Load timer				■		
Alarm counters and alarm logs				■		
Power quality measurements						
THD, thd (Total Harmonic Distortion) I, V L-N, V L-L		I, V L-N, V L-L				
TDD (Total Demand Distortion)				■		
Individual harmonics (odds)		15 th (PM5110)	31 st			63 rd
Neutral Current metering with ground current calculation		-	-			■
Waveform capture and sag/swell detection		-	-	-		8 cycles @ 128 samples/cycle
Data recording						
Min/max of instantaneous values, plus phase identification ⁽⁺⁷⁾				■		
Alarms with 1s timestamping ⁽⁺⁷⁾				■		
Data logging			2 fixed parameters kWh and kVAh with configurable interval & duration (e.g. 2 parameters for minimum 60 days at 15-minute intervals)	Up to 14 selectable parameters with configurable interval and duration (e.g. 6 parameters for minimum 90 days at 15-minute intervals)		
Min/max log		■	■			■
Maintenance, alarm and event logs			■			■
Customisable data logs		-				■
RTC with battery back up		3 years (when meter is in Power OFF condition)				
Display resolution		5 digits for Energy and other parameters with auto scaling				
Preset Energy and Energy scaling		Available in selected references				

⁽⁺⁷⁾ Stored in non-volatile memory

PM5000 series

PM5000 technical specifications

		PM5100	PM5300	PM5500	PM5600	PM5700
Inputs / Outputs / Mechanical Relays						
Digital inputs		–	2	4 in PM5560, PM5561, PM5562, PM5563, PM5580, PM5650 2 in PM5570, PM5660, PM5661, PM5760, PM5761		
Digital outputs		1 (kWh only)	2	2 (Solid state)		
Form A Relay outputs		–	2	–		
Analog inputs		–	–	2 for PM5570	–	–
Residual Current inputs		–	–		2 for PM5660	2 for PM5760
Timestamp resolution in seconds		1	1	1	1	1
Whetting source		–	24 V DC, 8 mA	–	–	–
Type of measurement: True rms on three-phase (3P, 3P + N)		64 samples per cycle		128 samples per cycle		
Measurement accuracy	IEC 61557-12	PMD/[SD]SS]/K70/0.5		PMD/[SD]SS]/K70/0.2		
	Active Energy	Class 0.5S as per IEC 62053-22/ Class 0.5 as per IEC 61557-12/ ± 0.5%		Class 0.2S as per IEC 62053-22/ Class 0.2 as per IEC 61557-12/ ± 0.2%		
	Reactive Energy	Class 2 as per IEC 62053-23/ Class 1.0 as per IEC 61557-12/ ± 1.0%		Class 2 as per IEC 62053-23/ Class 1.0 as per IEC 61557-12/ ± 1.0%		
	Active Power	Class 0.5 as per IEC 61557-12/ ± 0.5%		Class 0.2 as per IEC 61557-12/ ± 0.2%		
	Apparent Power	Class 0.5 as per IEC 61557-12/ ± 0.5%		Class 0.5 as per IEC 61557-12/ ± 0.5%		
	Reactive Power	Class 1.0 as per IEC 61557-12/ ± 1.0%		Class 1.0 as per IEC 61557-12/ ± 1.0%		
	Current, Phase	Class 0.5 as per IEC 61557-12/ ±0.5 %		Class 0.2 as per IEC 61557-12/ ±0.15 %		
	Voltage, L-N	Class 0.5 as per IEC 61557-12/ ± 0.5 %		Class 0.2 as per IEC 61557-12/ ± 0.1 %		
	Frequency	Class 0.05 as per IEC 61557-12/ ±0.05 %		Class 0.05 as per IEC 61557-12/ ±0.05 %		
	Power Factor	Class 0.5 as per IEC 61557-12/ ±0.005 count		Class 0.5 as per IEC 61557-12/ ±0.005 count		
	Voltage unbalance	Class 5/ ±5%		Class 2/ ±2%		
	Voltage harmonics	Class 5/ ±5%		Class 2/ ±2%		
	Voltage THD Class	Class 5/ ±5%		Class 2/ ±2%		
	Current harmonics	Class 5/ ±5%		Class 2/ ±2%		
	Current THD Class	Class 5/ ±5%		Class 2/ ±2%		
MID Directive EN50470-1, EN50470-3	Annex B and Annex D (Optional model references) Class C					
Input-voltage (up to 1.0 MV AC max, with voltage transformer)	Nominal Measured Voltage range	20 V L-N / 35 V L-L to 400 V L-N /690 V L-L absolute range 35 V L-L to 760 V L-L		20 V L-N / 20 V L-L to 400 V L-N /690 V L-L absolute range 20 V L-L to 828 V L-L		
	Impedance	5 MΩ				
	Frequency nominal	50 or 60 Hz ±5 %		50 or 60 Hz ±10 %		
Input-current (configurable for 1 or 5 A secondary CTs)	I nominal	5 A			–	
	Measured Amps with over range	Starting current: 5 mA Operating range: 50 mA to 8.5 A		Starting current: 5 mA Operating range: 50 mA to 10 A (with Crest Factor)		
	Withstand	Continuous 20 A, 10 s/hr 50 A, 1 s/hr 500 A				
	Impedance	< 0.3 mΩ				
	Frequency nominal	50 or 60 Hz ±5 %		50 or 60 Hz ±10 %		
	Burden	<0.026 VA at 8.5 A				
AC control power	Operating range	100 - 277 V AC L-N / 415 V L-L +/-10 % CAT III 300V class per IEC 61010		100-480 V AC ±10 % CAT III 600V class per IEC 61010		
	Burden	<5 W,11 VA at 415V L-L		<5W/16.0 VA at 480 V AC		
	Frequency	45 to 65 Hz				
	Ride through time at maximum burden	80 mS typical at 120V AC 100 mS typical at 230 V AC 100 mS typical at 415 V AC		35 ms typical at 120 V L-N 129 ms typical at 230 V L-N		
DC control power	Operating range	125–250 V DC ±20 % (100 to 300 V DC)				
	Burden	<4 W at 250 V DC		typical 3.1 W at 125 V DC, max. 5 W		
	Ride-through time	50 mS typical at 125 V DC and maximum burden				
LV DC control power	20-60 V DC ±10 % CAT III Burden 4.1 W max.	–	–	■ PM5580	–	–

PM5000 series

PM5000 technical specifications

		PM5100	PM5300	PM5500	PM5600	PM5700	
Outputs	Relay outputs	Max output frequency	–	0.5 Hz maximum (1 s ON / 1 s OFF - min times)	–	–	
		Switching current, at resistive load	–	250 V AC at 8.0 Amps, 25 k cycles 30 V DC at 2.0 Amps, 75 k cycles 30 V DC at 5.0 Amps, 12.5 k cycles	–	–	
		Isolation	–	2.5 kV rms	–	–	
	Digital outputs	Max load voltage	40 V DC		40 V AC / 60 V DC (PM5500 and PM 5650) 30 V AC / 40 V DC (PM5660, PM5661, PM5760, PM5761)		
		Max load current	20 mA		125 mA (Solid state)		
		On Resistance	50 Ω max		8 Ω		
		Meter constant	from 1 to 9,999,999 pulses per k_h (kWh, kVAh, kVARh)				
		Pulse width for Digital Output	50 % duty cycle				
		Pulse frequency for Digital Output	25 Hz max.				
		Leakage current	0.3 micro Amps		1 micro Amps		
	Optical outputs	Isolation	5 kV rms		2.5 kV rms for 60 s		
		Pulse width (LED)	200 ms				
		Pulse frequency	2.5 kHz. max		2.5 kHz. max		
	Status Inputs	Meter constant	from 1 to 9,999,999 pulses per k_h (kWh, kVAh, kVARh)				
		ON Voltage	–	18.5 to 36 V DC	15 to 30 V AC / 15 to 60 V DC max		
OFF Voltage		–	0 to 4 V DC	0 to 6 V AC / 0 to 6 V DC			
Input Resistance		–	110 k Ω	100 k Ω			
Maximum Frequency		–	2 Hz (T ON min = T OFF min = 250 ms)	25 Hz (T ON min = T OFF min = 20 ms)			
Response Time		–	20 ms	10 ms			
Opto Isolation		–	5 kV rms	2.5 kV rms for 60 s			
Whetting output		–	24 V DC/ 8 mA max	-			
Input Burden	–	2 mA @24V DC	2 mA @ 24 V AC/DC 2.5 mA @ 60 V AC/DC				
Analog inputs (PM5570)		–	–	4 - 20 mA DC (nominal), Accuracy: 1% of full-scale reading, Impedance < 20 Ω, Operating voltage: 24 V DC max	–	–	
Residual Current inputs (PM5660, PM5661, PM5760, PM5761) Type A as per IEC 62020		–	–	–	5 uA to 1200 uA (nominal), 1500 uA max (continuous), Input type: AC 45 to 65 Hz, Burden: 150 Ω, Default toroid: 1000 turns	–	
Mechanical characteristics							
Product weight		380 g	430 g	450 g	450 g	450 g	
IP degree of protection (IEC 60529)		IP54 front display, IP30 rear side (IP65 front side with Optional accessory kit METSEIP65OP96X96FF)					
Dimensions W x H x D [protrusion from cabinet]		96 x 96 x 72 mm (77 mm for PM5500) (depth of meter from housing mounting flange) [13 mm]					
Mounting position		Vertical					
Panel thickness		6 mm maximum					
LVCT^(*) inputs for PM5310R and PM5320R - Nominal voltage of 0.333V							
Measurement range		-	0.00333V - 0.4V	-	-	-	

(*) PM5310R and PM5320R must be used with Schneider Electric's "Quick Click" 3-in-1 LVCTs

PM5000 series

PM5000 technical specifications

		PM5100	PM5300	PM5500	PM5600	PM5700
Environmental characteristics						
Operating temperature	Operating temperature	-25 °C to 70 °C				
	Display (reduced display performance at -25 °C)	-25 °C to 70 °C				
Storage temperature		-40 °C to 85 °C				
Humidity range		5 to 95 % RH at 50 °C (non-condensing)				
Pollution degree		2				
Altitude		2000 m CAT III / 3000 m CAT II		3000 m max. CAT III		
Mission profile / Life span		>15 years				
Protective treatment		Conformal coating				
Electromagnetic compatibility						
Harmonic current emissions		-	-	IEC 61000-3-2		
Flicker emissions		-	-	IEC 61000-3-3		
Electrostatic discharge		IEC 61000-4-2				
Immunity to radiated fields		IEC 61000-4-3				
Immunity to fast transients		IEC 61000-4-4				
Immunity to surge		IEC 61000-4-5				
Conducted immunity 150 kHz to 80 MHz		IEC 61000-4-6				
Immunity to magnetic fields		IEC 61000-4-8				
Immunity to voltage dips		IEC 61000-4-11				
Immunity to damped oscillatory waves		-	-	IEC 61000-4-12		
Radiated and conducted emissions		FCC part 15, EN 55022 Class B				
Safety						
Europe		CE, as per IEC 61010-1 Ed. 3, IEC 62052-11 & IEC 61557-12				
U.S. and Canada		cULus as per UL 61010-1 (Edition 3)				
Measurement category (Voltage & Current inputs)		CAT III up to 400 V L-N / 690 V L-L				
Dielectric		As per IEC/UL 61010-1 (Edition 3)				
Protective Class		II, Double insulated for user accessible parts				
Communication						
RS-485 port Modbus RTU, Modbus ASCII (7 or 8 bit), JBUS		2-Wire, 9600,19200 or 38400 baud, Parity - Even, Odd, None, 1 stop bit if parity Odd or Even, 2 stop bits if None; (Optional in PM51x and PM53x)				
Ethernet port: 10/100 Mbps; Modbus TCP/IP		-	1 Optional	2 (daisy chain only, 1 IP address)		
Native Ethernet/IP & DNP3.0 over Ethernet		-	-	Yes	Yes	Yes
FTP / FTPS		-	-	Yes	Yes	Yes
SNMP, SNTP, SMTP		-	-	Yes	Yes	Yes
HTTPS		-	-	Yes	Yes	Yes
Firmware and language file update		Meter firmware update via the communication ports				
Isolation		2.5 kVrms, double insulated				
Human machine interface						
Display type		Monochrome Graphics LCD				
Resolution		128 x 128 pixels				
Backlight		White LED				
Viewable area (W x H)		67 x 62.5 mm				
Keypad		4-button				
Indicator Heartbeat / Communication activity		Green LED				
Energy pulse output / Active alarm (configurable)		Optical, amber LED				
Wavelength		590 to 635 nm				
Maximum pulse rate		2.5 kHz				

PM5000 series

Comm. ref numbers	Description
METSEPM5100	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 15th harmonic, 1DO
METSEPM5110	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 15th harmonic, 1DO, RS-485
METSEPM5111	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 15th harmonic, 1DO, RS-485, MID
METSEPM5310	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO, RS-485
METSEPM5310R	Power Meter, 600V AC L-L/ RJ45 LVCT input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO, RS-485
METSEPM5320	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO, Ethernet
METSEPM5320R	Power Meter, 600V AC L-L/ RJ45 LVCT input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO, Ethernet
METSEPM5330	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO/2-Relay, RS-485
METSEPM5331	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO/2-Relay, RS-485, MID
METSEPM5340	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO/2-Relay, Ethernet
METSEPM5341	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO/2-Relay, Ethernet, MID
METSEPM5560	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet
METSEPM5561	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, MID
METSEPM5562	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, RMI CAN approved, Hardware lockable
METSEPM5562MC	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, RMI CAN approved, Factory sealed
METSEPM5563	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, DIN mount, No display
METSEPM5563RD	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, DIN mount, Remote display
METSEPM5570	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2AI/2-DO, RS-485, Ethernet
METSEPM5580	Power Meter, 690V AC L-L/ 5A or 1A input, 24 to 64V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet
METSEPM5650	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, Wave Form Capture and Sag/swell
METSEPM5660	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2-DO, RS-485, Ethernet, Residual Current Monitor
METSEPM5661	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2-DO, RS-485, Ethernet, Residual Current Monitor, MID
METSEPM5760	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2-DO, RS-485, Ethernet, Wave Form Capture and Sag/swell, Residual current monitor
METSEPM5761	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2-DO, RS-485, Ethernet, Wave Form Capture and Sag/swell, Residual current monitor, MID

For selection of compatible current transformers with 5 A output in Schneider range: Refer **PLSED310169EN** in solid core and split core IEC type

For Residual Current Monitoring Toroids (Vigirex) - Closed Toroids, A Type (applicable for PM5660, PM5661, PM5760, PM5761)

50437	TA30 - closed toroid A type, for RCM enabled power meters, 30 mm inner diameter, rated current 65 Amps, 1000 turns
50438	PA50 - closed toroid A type, for RCM enabled power meters, 50 mm inner diameter, rated current 85 Amps, 1000 turns
50439	IA80 - closed toroid A type, for RCM enabled power meters, 80 mm inner diameter, rated current 160 Amps, 1000 turns
50440	MA120 - closed toroid A type, for RCM enabled power meters, 120 mm inner diameter, rated current 250 Amps, 1000 turns
50441	SA200 - closed toroid A type, for RCM enabled power meters, 200 mm inner diameter, rated current 400 Amps, 1000 turns
50442	GA300 - closed toroid A type, for RCM enabled power meters, 300 mm inner diameter, rated current 630 Amps, 1000 turns

Accessories for Closed Toroids (applicable for PM5660, PM5661, PM5760, PM5761)

56055	Magnetic ring/ Iron screen accessory for TA30 toroid sensor
56056	Magnetic ring/ Iron screen accessory for PA50 toroid sensor
56057	Magnetic ring/ Iron screen accessory for IA80 toroid sensor
56058	Magnetic ring/ Iron screen accessory for MA120 toroid sensor

Residual Current Monitoring Toroids (Vigirex) - Split Toroids, OA Type (applicable for PM5660, PM5661, PM5760, PM5761)

50420	TOA80 - split toroid OA type, 80 mm inner diameter, rated current 160 Amps, 1000 turns
50421	TOA120 - split toroid OA type, 120 mm inner diameter, rated current 250 Amps, 1000 turns
56053	L1 type - rectangular sensor, width 280 x height 115 mm, rated current 1600 Amps, 1000 turns
56054	L2 type - rectangular sensor, width 470 x height 160 mm, rated current 3200 Amps, 1000 turns

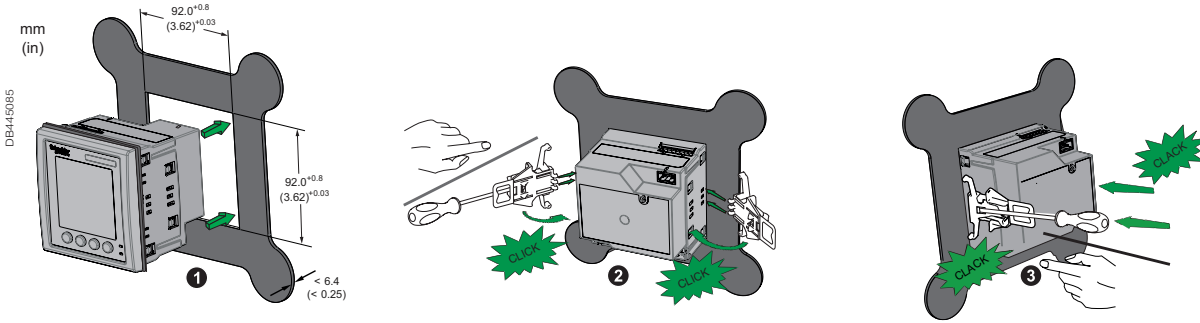
Current Transformer commercial reference numbers for PM53xxR

Comm. ref numbers	Description
0.333V (1/3 Volts), 3-in-1 CTs with RJ45 connectors for PM53x0R LVCT enabled power meter	
METSECTV25006	LVCT Solid core 3 in 1 with RJ45 cable, 25 mm phase center, 60 Amps, 0.333V output
METSECTV25010	LVCT Solid core 3 in 1 with RJ45 cable, 25 mm phase center, 100 Amps, 0.333V output
METSECTV25013	LVCT Solid core 3 in 1 with RJ45 cable, 25 mm phase center, 125 Amps, 0.333V output
METSECTV25016	LVCT Solid core 3 in 1 with RJ45 cable, 25 mm phase center, 160 Amps, 0.333V output
METSECTV35006	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 60 Amps, 0.333V output
METSECTV35010	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 100 Amps, 0.333V output
METSECTV35012	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 120 Amps, 0.333V output
METSECTV35013	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 125 Amps, 0.333V output
METSECTV35015	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 150 Amps, 0.333V output
METSECTV35016	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 160 Amps, 0.333V output
METSECTV35020	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 200 Amps, 0.333V output
METSECTV35025	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 250 Amps, 0.333V output
METSECTV45025	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 250 Amps, 0.333V output
METSECTV45030	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 300 Amps, 0.333V output
METSECTV45040	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 400 Amps, 0.333V output
METSECTV45050	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 500 Amps, 0.333V output
METSECTV45060	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 600 Amps, 0.333V output
METSECTV45063	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 630 Amps, 0.333V output
METSECTV29006	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 60 Amps, 0.333V output
METSECTV29010	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 100 Amps, 0.333V output
METSECTV29012	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 120 Amps, 0.333V output
METSECTV29013	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 125 Amps, 0.333V output
METSECTV29015	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 150 Amps, 0.333V output
METSECTV29016	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 160 Amps, 0.333V output
METSECTV29020	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 200 Amps, 0.333V output
METSECTV70080	LVCT Solid core 3 in 1 with RJ45 cable, 70 mm phase center, 800 Amps, 0.333V output
METSECTV70100	LVCT Solid core 3 in 1 with RJ45 cable, 70 mm phase center, 1000 Amps, 0.333V output
METSECTV70125	LVCT Solid core 3 in 1 with RJ45 cable, 70 mm phase center, 1250 Amps, 0.333V output
Cables for PM5563 and PM5563RD	
METSEPM5CAB03	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 0.3 meter cable length
METSEPM5CAB1	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 1.0 meter cable length
METSEPM5CAB10	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 10 meter cable length
METSEPM5CAB3	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 3 meter cable length
METSEPM5CAB4	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 4 meter cable length
Other related products or accessories	
METSEPM5RD	Remote display unit for PM5563 power meter supplied with mounting bracket, gasket, anti-rotation pin and RJ25 cable METSEPM5CABxy
METSEPM51HK	Hardware kit for PM51xx comprises 2 retainer clips and spare connectors for - Voltage in, Control power in, Digital IO & RS-485
METSEPM53HK	Hardware kit for PM51xx comprises 2 retainer clips and spare connectors for - Voltage in, Control power in, Digital IO, Relay & RS-485
METSEPM51_3RSK	Revenue sealing kit for PM51XX & PM53XX
METSEPM55RSK	Revenue sealing kit for PM55XX
METSEPM55HK	Hardware kit for PM55xx

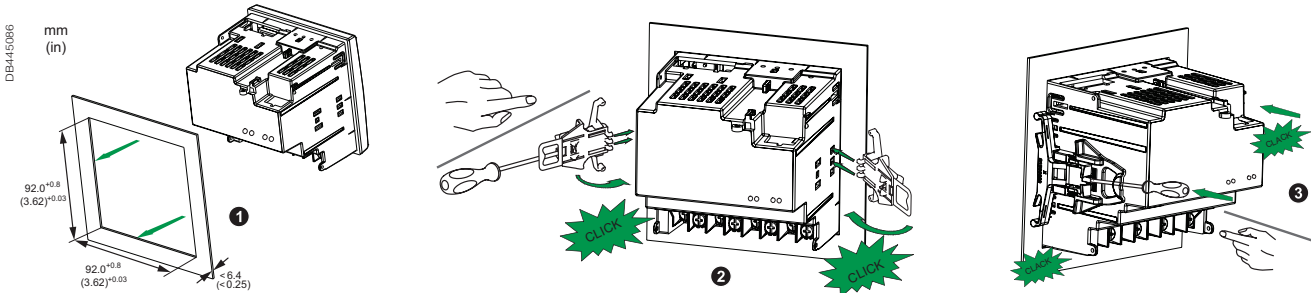
Please contact your Schneider Electric representative for complete ordering information.

PM5000 series

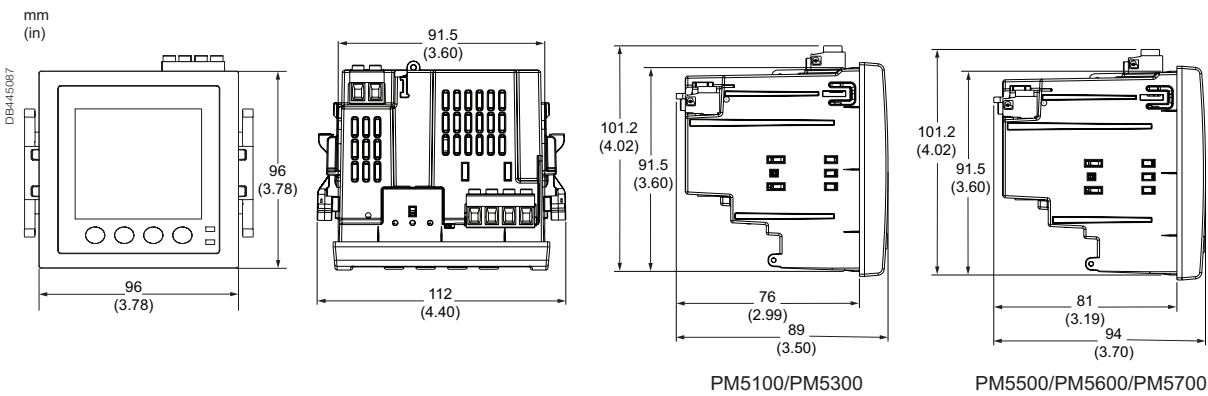
PM5100/PM5300 Series meter mounting



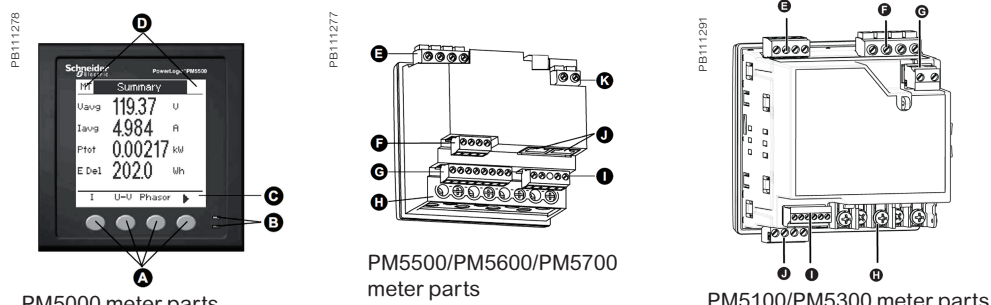
PM5500/PM5600/PM5700 series meter mounting



PM5000 series meter dimensions



PM5000 series overview



PM5000 meter parts

- A** Menu selection buttons
- B** LED indicators
- C** Navigation or menu selections
- D** Maintenance and alarm notification area

PM5500/PM5600/PM5700 meter parts

- E** Voltage inputs
- F** RS-485 comms
- G** Digital inputs
- H** Current inputs
- I** Digital outputs
- J** Ethernet ports
- K** Control power

PM5100/PM5300 meter parts

- E** Relay output (PM5300 only)
- F** Voltage inputs
- G** Control power
- H** Current inputs
- I** Status inputs/digital outputs
- J** Communications port: Ethernet (PM5300 only) or RS-485

Please see the appropriate **Installation Guide** for accurate and complete information on the installation of this product.

PowerLogic™ PM5350 series

The PowerLogic™ PM5350 series power meters are the new benchmark in affordable, precision metering.

The PowerLogic™ PM5350, PM5350IB, PM5350PB, and PM5350P power meters offer all the measurement capabilities required to monitor an electrical installation in a space-efficient, single 96 x 96 mm unit with small depth. DNC certifies for marine applications.

Applications

- Panel instrumentation.
- Cost allocation or energy management
- Electrical installation remote monitoring
- Sophisticated alarming
- Circuit breaker monitoring and control



METSEPM5350P

The solution for

Markets that can benefit from a solution that includes PowerLogic™ PM5350 series meters:

- Buildings
- Industry
- Healthcare
- Data Centre and networks
- Infrastructure

Benefits

System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness

Panel builders' benefit

- Ease of installation
- Cost effectiveness
- Aesthetically pleasing
- Simplified ordering

End users' benefit

- Ease of use
- Precision metering & sub-billing
- Billing flexibility
- Comprehensive, consistent and superior performance

Competitive advantages

- Easy to install and operate
- Easy for circuit breaker monitoring and control
- Power quality analysis
- Load management combined with alarm and timestamping
- High performance and accuracy
- Multi-tariff capabilities
- Individual harmonics up to 31st

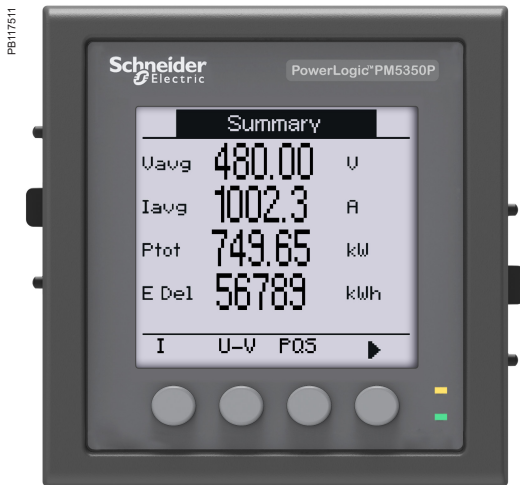
Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximise electrical network reliability and availability, and optimise electrical asset performance.

Conformity of standards

- IEC 62053-22
- IEC 61557-12
- IEC 62053-23
- IEC/UL 61010-1
- IEC 61326-1
- UL 61010-1
- IEC 61000-3-3
- FCC part 15 Class A
- DNV GL certified

PM5350 series



Front display of PowerLogic™ PM5350P front display



Rear view of PowerLogic™ PM5350P

Commercial reference number	Description
METSEPM5350	RS-485 Modbus, THD, 4DI, 2Relay
METSEPM5350IB	RS-485, 4DI/2Relay, Multi-level alarm, UL480V, 4DI/2Relay
METSEPM5350PB	RS-485, 4DI/2Relay, Multi-level alarm, UL300V, 4DI/2Relay
METSEPM5350P	RS-485 Modbus, THD, 31st Individual harmonics, Multi-tariff, 4DI/2Relay

The PowerLogic™ PM5350 series power meters offer electrical installation measurement capabilities in a single 96 x 96 mm unit. Three-phases and neutral can be monitored simultaneously using a bright, anti-glare display with large characters and backlighting. Menus are intuitive and the meter supports English, Chinese, Hebrew, and Spanish languages. Its compact size and high performance make the PowerLogic™ PM5350 series suitable for many applications.

• Applications

- Panel instrumentation.
- Cost allocation or energy management.
- Electrical installation remote monitoring.
- Alarming with under/over, digital status, control power interruption, meter reset, self diagnostic issue.
- Circuit Breaker monitoring and control with relay outputs and whetted digital inputs.

• Main characteristics

- Easy to install
 - Mounts using two clips, no tools required. Ultra compact meter with 44 mm depth connectable up to 480 V L-L without voltage transformers for installations compliant with category III, as per IEC 61010-1. See specification table for UL voltage limits.
- Easy to operate
 - Intuitive navigation with self-guided, language selectable menus, six lines, four concurrent values. Two LEDs help confirm normal operation.
- Easy circuit breaker monitoring and control
 - Two relay outputs (high performance) to command most circuit breaker coils directly. Monitored switches can be wired directly without external power supply.
- System status at a glance
 - Bright, anti-glare, backlit display plus two LEDs; orange for energy pulse or alarm and green for heartbeat/communications indication.
- IEC 62053-22 class 0.5S accuracy for active energy
 - Accurate energy measurement for cost allocation.
- Power Quality analysis
 - The PM5350P offers THD and TDD measurements as standard. Total Demand Distortion is based on a point of common coupling (PCC), which is a common point that each user receives power from the power source. The TDD compares the contribution of harmonics versus the maximum demand load. In addition, it has individual harmonics (odd) measurement up to 31st harmonics. These types of power quality parameters help to identify the source of harmonics that can harm transformers, capacitors, generators, motors and electronic equipment.

• Load management

- Peak demands with Timestamping are provided. Predicted demand values can be used in basic load shedding applications. Alarming with timestamping
- Over 30 alarm conditions, such as under/over conditions, digital input changes, and phase unbalance inform you of events. A time-stamped log maintains a record of the last 40 alarm events.
- Load timer setpoint adjustable to monitor and advise maintenance requirements.
- Performance Standard Meets IEC 61557-12 PMD/Sx/K70/0.5.

PM5350 series

Feature guide		PM5350P	PM5350	PM5350IB	PM5350PB
General					
Use on LV and MV systems				■	
Basic metering with THD and min/max readings				■	
Instantaneous rms values					
Current	Total, Phases and neutral			■	
Voltage	Total, Ph-Ph and Ph-N			■	
Frequency				■	
Real, reactive, and apparent power	Total and per phase			Signed	
True Power Factor	Total and per phase			Signed, Four Quadrant	
Displacement PF	Total and per phase			Signed, Four Quadrant	
Unbalanced I, VL-N, VL-L				■	
Accumulated Active, Reactive and Apparent Energy Stored in non-volatile memory		Received/Delivered; Net and absolute;			
Demand values					
Current average	Present, Last, Predicted, Peak, & Peak Date Time			■	
Active power	Present, Last, Predicted, Peak, & Peak Date Time			■	
Reactive power	Present, Last, Predicted, Peak, & Peak Date Time			■	
Apparent power	Present, Last, Predicted, Peak, & Peak Date Time			■	
Multi-tariff		16 tariffs			
Peak demand with timestamping D/T for current & powers				■	
Demand calculation	Sliding, fixed and rolling block, thermal		■		
Synchronization of the measurement window			■		
Other measurements					
I/O timer			■		
Operating timer			■		
Active load timer			■		
Alarm counters			■		
Power quality measurements					
THD, thd (Total Harmonic Distortion)				I, V L-N, V L-L	
TDD, thd (Total Demand Distortion)				■	
Harmonics Individual (Odd)		31st			
Data recording					
Min/max of instantaneous values, plus phase identification				■	
Alarms with 1s timestamping				Standard 29; Unary 4; Digital 4	
Alarms stored in non-volatile memory				40 events	
Inputs/Outputs					
Digital inputs				4 (DI1, DI2, DI3, DI4)	
Digital outputs				2 relay outputs (DO1, DO2)	
Display					
White backlit LCD display, 6 lines, 4 concurrent values				■	
IEC or IEEE visualization mode				■	
Communication					
Modbus RTU, Modbus ASCII, Jbus Protocol				■	
Firmware update via RS-485 serial port (DLF3000 via the Schneider Electric website: x)				■	

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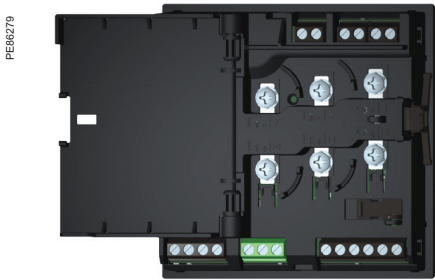
PM5350 series

Electrical characteristics			PM5350	PM5350P	PM5350PB/IB
Type of measurement		True rms measurement in 1P, 2P, 3P network, supports 13 wiring schemes. 32 samples per cycle, zero blind	■	31 st	■
Measurement accuracy	Current, Phase ⁽¹⁾	±0.30 %	■	0.2% (Avg A)	■
	Voltage, L-N ⁽¹⁾	±0.30 %	■	0.2% (Avg A)	■
	Power Factor ⁽¹⁾	±0.005		■	
	Power, Phase ⁽²⁾	IEC 61557-12 Class 0.5; For 5 A nominal CT		■	
	Frequency ⁽¹⁾	±0.05 %		■	
	Real Energy ⁽³⁾	IEC 62053-22 Class 0.5S IEC 61557-12 Class 0.5		■	
	Reactive Energy ⁽⁴⁾	IEC 62053-23 Class 2 IEC 61557-12 Class 2		■	
Data update rate		1 second nominal (50/60 cycles)		■	
Input-voltage	VT primary	1.0 MV AC max, starting voltage depends on VT ratio		■	
	U _{nom}	277 V L-N		■	
	Measured voltage with overrange & Crest Factor	IEC: 20 to 480 V AC L-L; 20 to 277 V AC L-N, CAT III IEC: 20 to 690 V AC L-L; 20 to 400 V AC L-N, CAT II UL: 20 to 300 V AC L-L, CAT III		■	■ and UL: 20 to 480 V AC L-L
	Permanent overload	700 V AC L-L, 404 V AC L-N		■	
	Impedance	10 MΩ		■	
	Burden	0.2 VA at 240 V AC L-N		■	
	Frequency range	45 to 70 Hz	■	45 to 65 Hz	■
Input-current	CT ratings Secondary	1 A, 5 A nominal		■	
	Measured voltage with overrange & crest factor	5 mA to 9 A		■	
	Withstand	Continuous 20 A, 10 sec/hr 50 A, 1 sec/hr 500 A		■	
	Impedance	< 0.3 mΩ		■	
	Frequency range	45 to 70 Hz		■	
	Burden	< 0.024 VA at 9 A		■	
AC control power	Operating range	85 - 265 V AC		■	
	Burden	At 120 V AC, 4.1 VA/ 1.5 W typical At 230 V AC, 6.3 VA/ 2.0 W typical At 265 V AC, 9.6 VA/ 3.5 W typical	6.7 VA / 2.7 W 8.6 VA / 2.9 W 11.9 VA / 3.5 W	7 VA / 4 W 9 VA / 5 W 11.9 VA / 5 W	6.7 VA / 2.7 W 8.6 VA / 2.9 W 11.9 VA / 3.5 W
	Frequency	45 to 65 Hz		■	
	Ride-through time	Typical at 120 V AC and with maximum burden Typical at 230 V AC and with maximum burden	100 mS 400 mS	40 mS 250 mS	100 mS 400 mS
DC control power	Operating range	100 to 300 V DC		■	
	Burden	Typical/ Maximum at 125 V DC Typical/ Maximum at 250 V DC Typical Maximum at 300 V DC	1.4 W / 2.6 W 1.8 W / 2.7 W 3.8 W max	4 W max 5 W max 5 W max	1.4 W / 2.6 W 1.8 W / 2.7 W 3.8 W max
	Ride-through time	Typical at 125 V DC and with maximum burden	50 mS	30 mS	50 mS
Real time clock	Battery backup	30 seconds ride-through	■	3 years backup without control power	■
Digital output	Number/Type	2 - Mechanical Relays		■	
	Output frequency	0.5 Hz maximum (1 second ON / 1 second OFF - minimum times)		■	
	Switching Current	30 V DC, 5 A 250 V AC, 8 A Cos φ = 1 250 V AC, 6 A Cos φ = 0.4		■	
	Isolation	2.5 kVrms		■	
Status Digital Inputs	Voltage ratings	ON 18.5 to 36 V DC, OFF 0 to 4 V DC		■	
	Input Resistance	110 k Ω		■	
	Maximum Frequency	2 Hz (T ON min = T OFF min = 250 ms)		■	
	Response Time	10 ms		■	
	Isolation	2.5 kVrms		■	
Whetting output	Nominal voltage	24 V DC		■	
	Allowable load	4 mA		■	
	Isolation	2.5 kVrms		■	

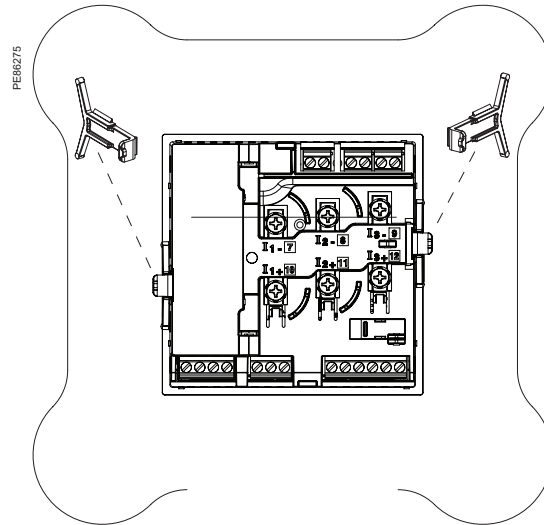
⁽¹⁾ Measurements taken from 45 Hz to 65 Hz, 0.5 A to 9 A, 57 V to 347 V & 0.5 ind to 0.5 cap power factor with a sinusoidal wave.
⁽²⁾ Active power: ±0.5 % from 0.25 A to 9.0 A at Cos φ = 1, ±0.6 % from 0.50 A to 9.0 A at Cos φ = 0.5 (ind or cap)
⁽³⁾ Real/active Energy: ±0.5 % from 0.25 A to 9.0 A at Cos φ = 1, ±0.6 % from 0.50 A to 9.0 A at Cos φ = 0.5 (ind or cap) IEC 61557-12 Class 0.5
⁽⁴⁾ Reactive energy: ±2.0 % from 0.25 A to 9.0 A at Sin φ = 1 ±2.5 % from 0

PM5350 / PM5350P series

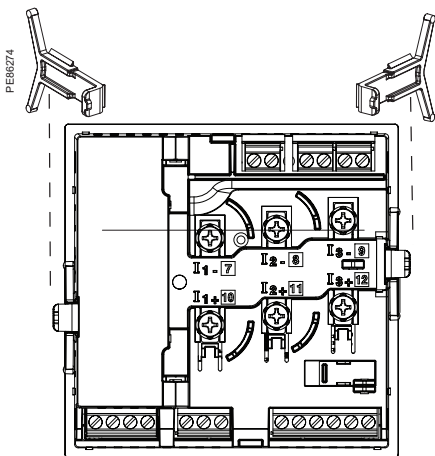
Rear of meter - open



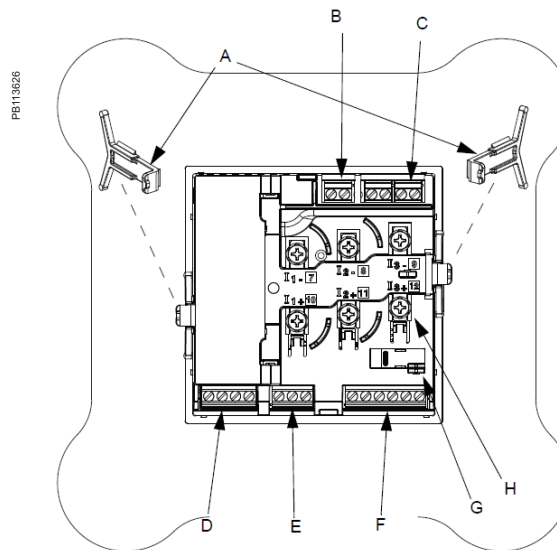
Rear view retainers - users



Rear view retainers - installation

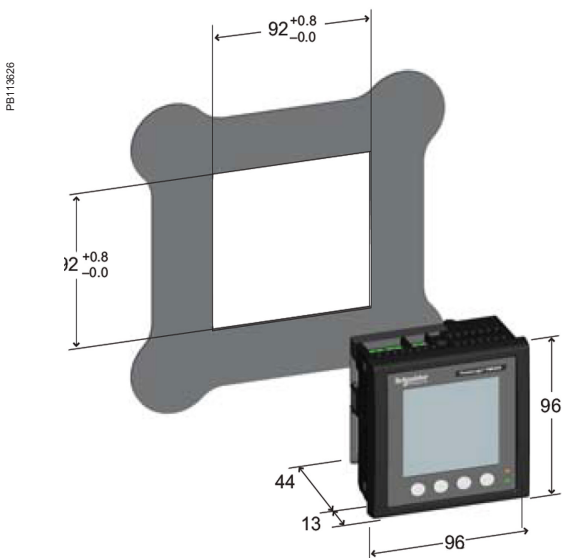


For detailed installation instructions see the product's Installation Guide.



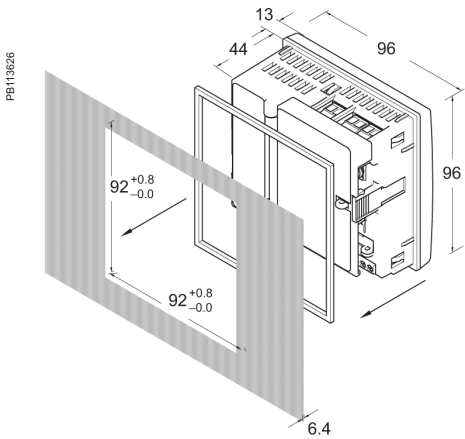
PM5350 / PM5350P meter parts

- A Retainer clips.
- B Control power supply connector.
- C Voltage inputs.
- D Digital outputs.
- E RS-485 port (COM1).
- F Digital input.
- G Optical revenue switch.
- H Current inputs.

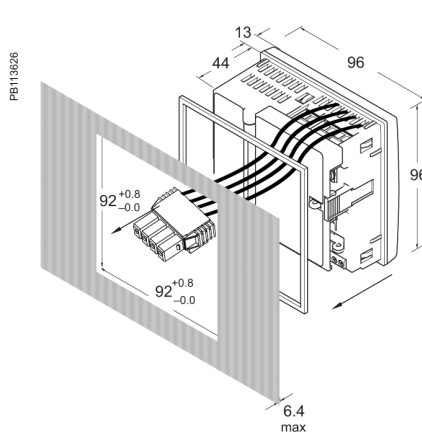


For detailed installation instructions see the product's Installation Guide.

PM5350IB/PB series

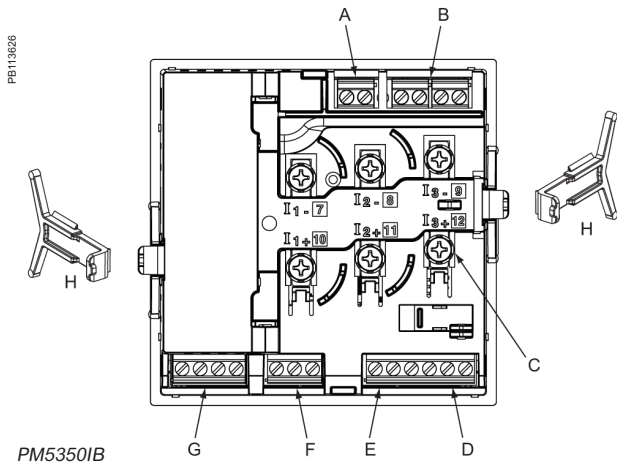


Dimensions PM5350IB

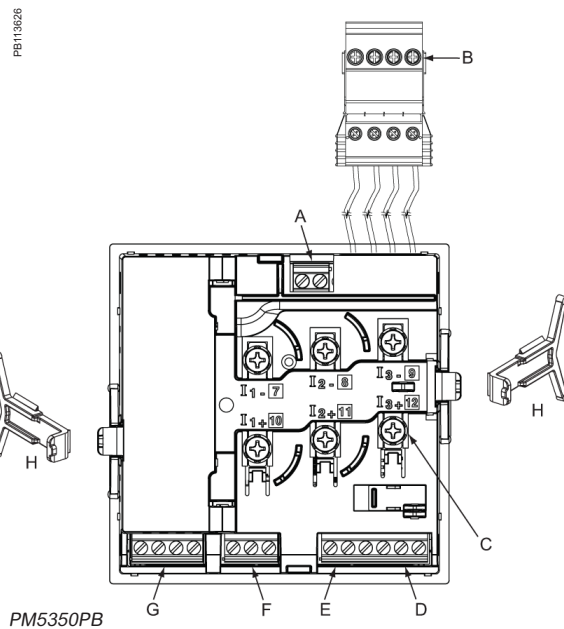


Dimensions PM5350PB

Parts of PM5350IB and PM5350PB (rear panel door removed)

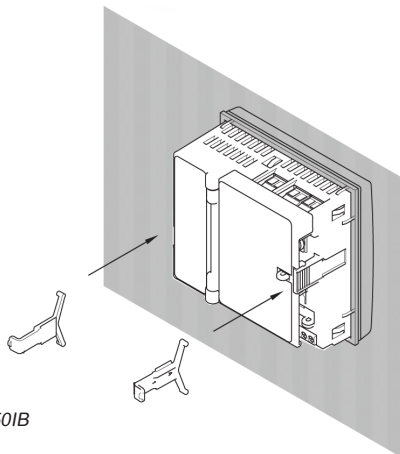


PM5350IB

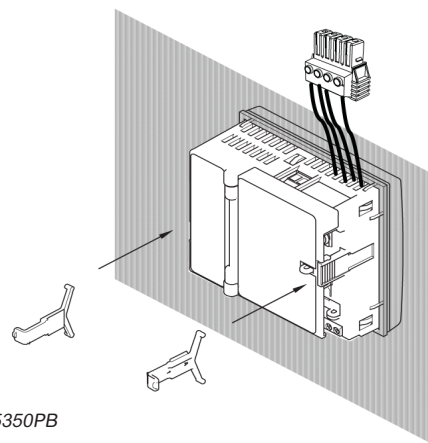


PM5350PB

- A Control power
- B Voltage inputs
- C Current inputs
- D Digital inputs
- E Whetting voltage source (for digital inputs)
- F RS-485 communications
- G Digital outputs
- H Retainer clips



PM5350IB



PM5350PB

For detailed installation instructions see the product's Installation Guide.

Insulation Monitoring Devices

An IT earthing system allows your electrical distribution system to continually operate, even in the presence of an insulation fault, without endangering people or property. Required as part of an IT earthing system, an insulation monitoring device (IMD) detects the initial fault so you can make repairs before a second fault occurs, which could trigger protective devices and halt operations.



Insulation Monitoring of IT / Ungrounded Networks

Any electrical installation must ensure both the safety of people and the protection of its assets. Over time, loads and conductors may experience insulation degradation to earth, leading to potential safety risks. One way to protect the installation and people is to install protection devices that will cut power to all or part of the installation in case of an insulation fault.

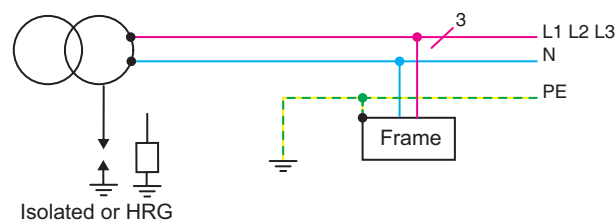
The consequences of this loss of power can be significant:

- Total or partial stoppage of critical processes including people safety processes.
- Total or partial loss of production and stocks.
- Increased operational costs and delays.

Continuity of service is thus an essential operational and safety requirement for many power network applications.

One way to ensure the protection of an installation and maintain service continuity is to isolate all or part of it from earth. This is what is called an IT earthing network or ungrounded network.

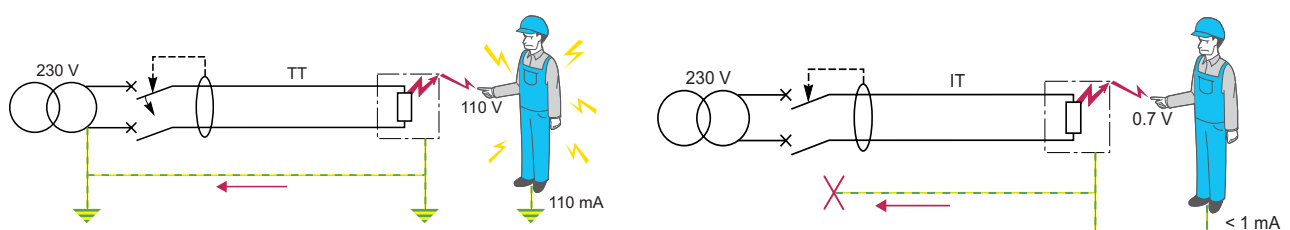
This is done simply by disconnecting the neutral of the transformer secondary windings from earth or connecting it through a high resistance (HRG).



As such, in the event of an insulation fault, current cannot loop via the transformer's neutral resulting in:

- No dangerous contact voltage when touching metal parts.
- Very low fault currents.

Consequently, protective devices are not triggered, power is maintained, and therefore, an IT earthing system provides the best continuity of service.



TT or TN earthing systems: people protection vs residual currents thanks to RCD but power is cut.

IT earthing system: no RCD tripping as there is no current loop back to transformer.

The VigiloHM catalog offers a range of products suitable for these various applications, from the simplest insulation monitoring systems to the most advanced ones, including individual insulation monitoring per feeder and communication with supervision.

Insulation Monitoring of IT / Ungrounded Networks

IT earthing systems are used for applications requiring continuity of service, such as:

- Healthcare: critical rooms in medical premises such as operating theaters, intensive care units, recovery rooms.
- Industry: critical processes in cement, steel, aluminium, oil and gas, chemical factories, food processing, car manufacturing, (painting area, other...) water, and waste water.
- Infrastructure: control tower and take-off path in airports, railways, seaports, tunnels, and signaling networks in rail.
- Utilities: power plants and control command systems.
- Photovoltaic: solar farms.
- Marine: electrical distribution of any type of ship.
- DC applications such as electrical vehicle charging stations.
- Medium Voltage: cable monitoring, distribution in industrial sites, MV loads-transformers and motors.

Vigilohm Range Overview for All Networks, Except Healthcare

Product		LV	MV
Insulation Monitoring Devices (IMDs)		IMD-IM9, IMD-IM9-OL IMD-IM10, IMD-IM20 IMD-IM10-H, IMDIM15H, IMD-IM20-H IMD-IM400, IMDIM400L, IMD-IM400C IMD-IM400THR, IMD-IM400LTHR	IMDIM400THR IMDIM400LTHR
Insulation Fault Locators (IFLs)		IMDIFL12 IMDIFL12L IMDIFL12C IMDIFL12MC IMDIFL12LMC IMDIFL12MCT	None
Voltage Adaptors		IM20-1700 IM400-1700C IM400VA2 PHT1000 IFL12VA1T	1460872 (P1N)
Toroids		50437 (TA30) 50438 (PA50) 50439 (IA80) 50440 (MA120) 50441 (SA200) 50442 (GA300) 50420 (TOA80) 50421 (TOA120)	None
Manual Fault Locating		IMDMFLK1 + Clamps IMDCP15, MDCP50, IMDCP100	None
Accessories		50159 (ZX Plate) 50171, 50172, 50183 (Cardew)	Voltage Transformers 03811728N0 (6.6 kV) 03811746N0 (22 kV) 03811749N0 (33 kV)

Vigilohm Range Overview for Low Voltage Networks, Except Healthcare

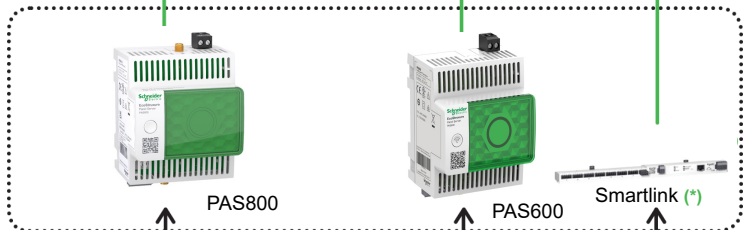
A complete solution to meet your needs

Monitoring and Control
Power Monitoring and SCADA system



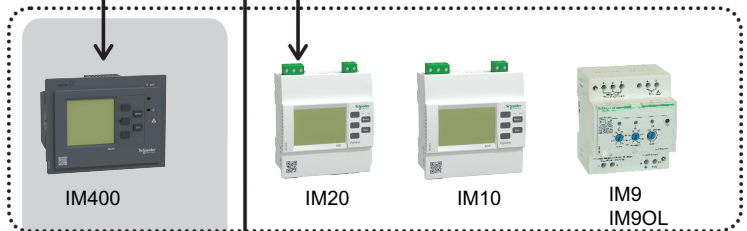
EcoStruXure Power Monitoring Expert
EcoStruXure Power SCADA Expert

Communication and Simple Monitoring
Gateway, Data logger and Web Server



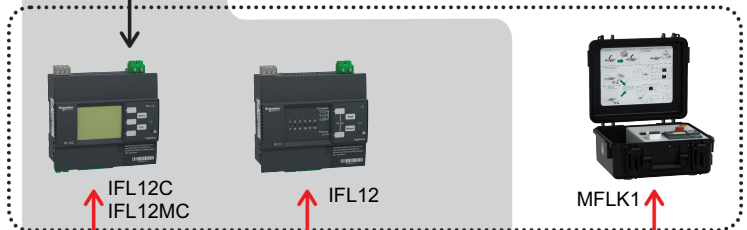
Modbus TCP/IP

Insulation Monitoring Devices
Monitoring of the global network insulation

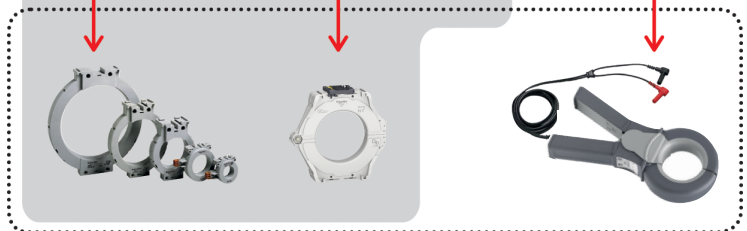


Modbus RS485

Insulation Fault Locators
Identification of the faulty feeder



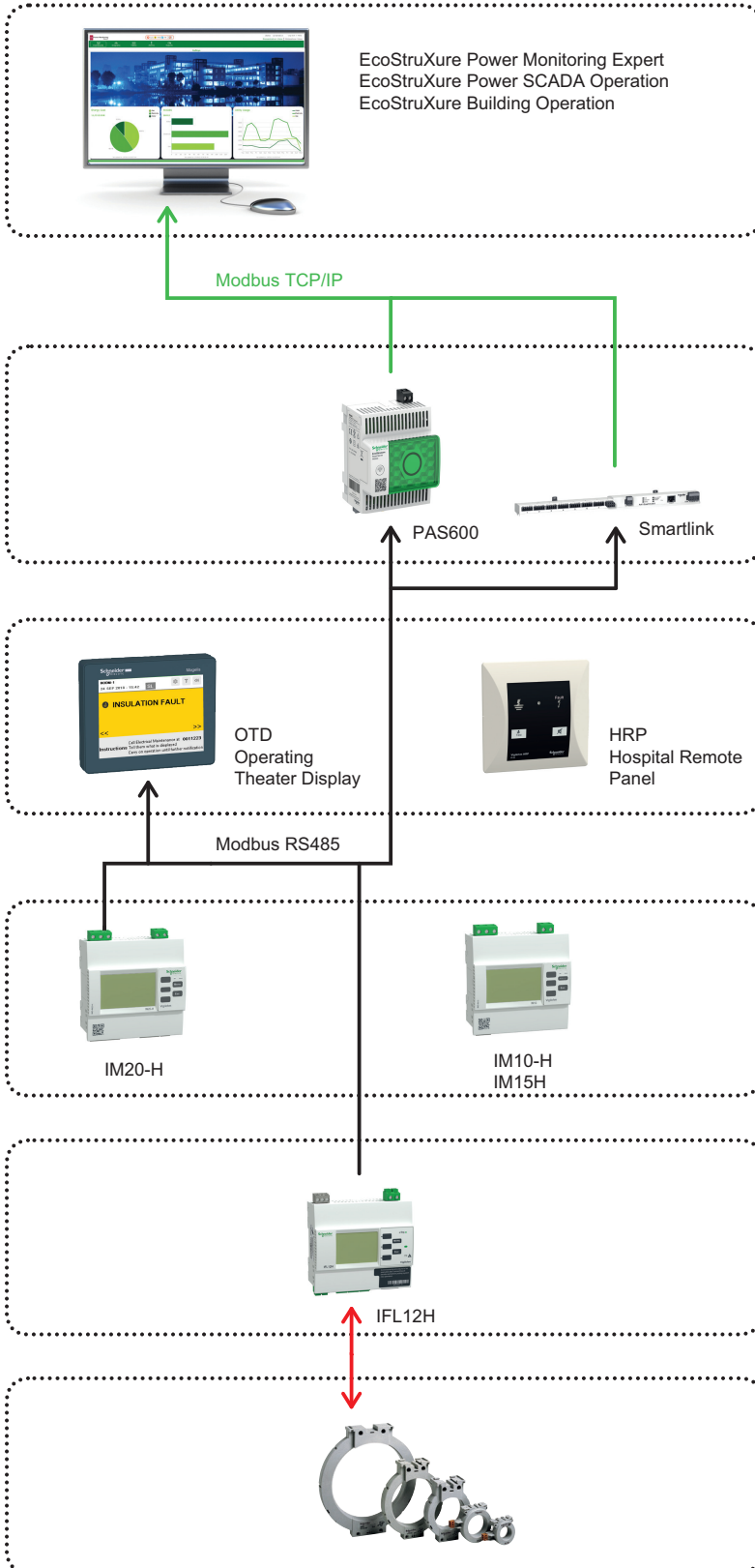
Toroids
Used along with the Fault Locators



(*) Alarm relay position can be sent to a supervisor via a SmartLink.

Vigilohm Range Overview for Healthcare Networks

Dedicated offers for critical rooms compliant with IEC60364-7-710



Monitoring and Control

Power Monitoring & SCADA system

Communication

Gateway

Local Displays

HMI in the medical room

Insulation Monitoring Devices

Monitoring of the global network insulation

Insulation Fault Locators

Identification of the faulty

Toroids

Used along with the Fault Locators

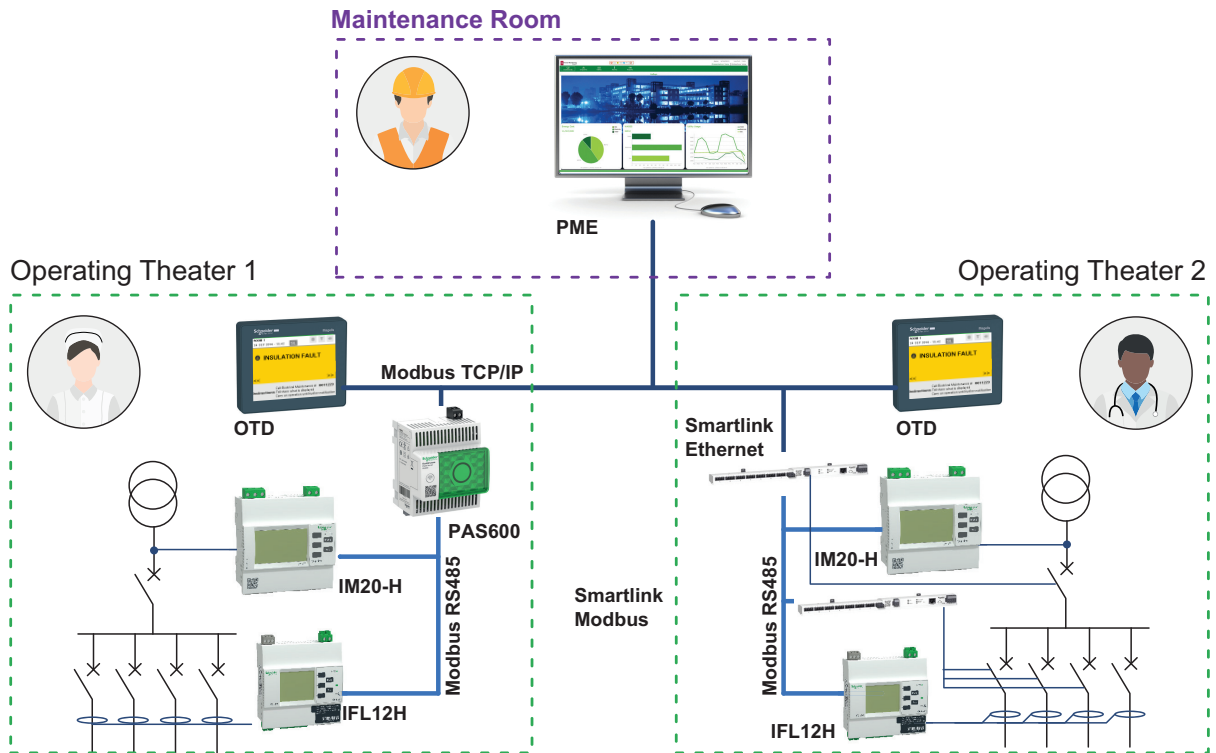
Vigilohm Range Overview for Healthcare

Example of Healthcare network monitored by Vigilohm Insulation Monitoring Devices in compliance with IEC 60364-7-710.

The same hospital may have differing architectures, as shown below.

Operating Theater 1 uses PAS600 to send data to the supervision system.

Operating Theater 2 uses Smartlink to send data to the supervision system, knowing that Smartlink can also collect data from the circuit breaker, tripped or not.



Medical staff is informed of electrical faults in the operating theater room through the local HMI

Technical staff is informed of any fault in the various operating theaters via a supervision system such as EcoStruxure Power Monitoring Expert.

This range of products, dedicated to Medical premises, meets requirements from IEC60364-7-710.

IMD and IFL are also “MED” certified, as they meet their product standard:

- IEC61557-8, annex A & B for IMDs and the remote panel
- IEC61557-9, annexA for IFLs

Commercial reference numbers required for the healthcare application:	
Isolation Transformer	IMD-IT-S63-H, or IMD-IT-S80-H, or IMD-IT-S100-H
IMDs	IMD-IM10-H, or IMDIM15H, or IMD-IM20-H
Remote panel	50168 (HRP) or IMDLRDH
Locator	IMDIFL12H
Toroids	with IM20-H: METSECT5CC004 or METSECT5CC005 with IFL: 50437 (TA30)
Modbus Gateway	PAS600

Vigilohm Range Commercial Reference Numbers

Commercial ref. no.	Description	Commercial ref. no.	Description
Vigilohm Insulation Monitoring			
50159	ZX Impedance	IMD-IM10-H	IM10 H
50168	Hospital Remote Panle	IMDIM15H	IM15 H
50169	CARDEW Holder	IMD-IM20	IM20
50171	CARDEW 440V CA Surge Arestor	IMD-IM20-1700	Voltage Adaptor for IM20
50172	CARDEW 660V CA Surge Arestor	IMD-IM20-H	IM20 H
50183	CARDEW 1000V CA Surge Arestor	IMD-IM400	IM400
50248	PHT1000	IMD-IM400-1700	Voltage Adaptor for IM400
50420	TOA80 Open Toroid	IMDIM400-1700C	Voltage Adaptor for IM400 Conformal Coated
50421	TOA120 Open Toroid	IMD-IM400C	IM400C
50437	TA30 Toroid	IMDIM400L	IM400L
50438	PA50 Toroid	IMDIM400LTHR	IM400LTHR
50439	IA80 Toroid	IMDIM400THR	IM400THR
50440	MA120 Toroid	IMD-IM400VA2	Voltage Adaptor for PV Application Coated
50441	SA200 Toroid	IMD-IM9	IM9
50442	GA300 Toroid	IMD-IM9-OL	IM9OL
1460872	Voltage Adaptor P1N	IMD-IT-S63-H	Single Phase, Isolated Transformer, 6,3kVA
IMDCP100	Current Probe 100mm	IMD-IT-S80-H	Single Phase, Isolated Transformer, 8kVA
IMDCP15	Current Probe 15mm	IMD-IT-S100-H	Single Phase, Isolated Transformer, 10kVA
IMDCP50	Current Probe 50mm	IMDLRDH	Remote Display Hospital
IMDIFL12	Ins Fault locator Entry		
IMDIFL12C	Ins Fault locator Entry Com		
IMDIFL12H	Ins Fault locator HC		
IMDIFL12L	Ins Fault locator Entry 24-48Vdc		
IMDIFL12LMC	Ins Fault locator Adv 24-48Vdc		
IMDIFL12MC	Ins Fault locator Adv		
IMDIFL12MCT	Ins Fault locator Adv Tropic		
IMDIFL12VA1T	Voltage Adaptor for IFL12MC Series_1000V		
IMDMFLK1	Mobile Localisation Kit Case with IM400 and Probes, 1 Channel		
IMD-IM10	IM10		

Please see your Schneider Electric representative for complete ordering information.

EcoStruxure™ Panel Server

IoT for an intelligent power network

The EcoStruxure™ Panel Server is the next generation of gateway, providing a seamless connection of wired or unwired smart IoT devices to your edge control software or cloud-based applications and analytics. It is a foundational enabler for Schneider Electric EcoStruxure™ solutions.

Electrical safety

Panel Server is an integral part of Schneider Electric’s continuous thermal monitoring application, helping reduce risk of electrical fires, increase people and assets protection. Implement the thermal monitoring of your electrical panel by connecting thermal and heat sensors to your Panel Server.

Power availability

Electrical distribution monitoring and power event analysis help avoid unplanned downtime caused by electrical failure. Panel Server collects real-time data and alarms, presenting information through embedded webpages, making it available to edge control software or cloud-based applications and analytics for electrical system diagnostics. Use embedded webpages for first-level monitoring or monitor from your edge or cloud control system.

Optimize energy efficiency

Improve your facility’s energy efficiency and reduce energy consumption with energy usage analysis and performance tracking. Panel Server collects and shares energy data to help achieve your energy conservation initiatives. It is part of an energy data management system certified for compliance with ISO 50001, 50002, and 50006 requirements.

Cybersecurity

Guarding your electrical assets and systems against cyber attacks is vital. Discover the enhanced cybersecurity benefits of Panel Server and its IEC62443-4-1 compliant development lifecycle. Explore its cybersecurity features through a [dedicated guide](#), and discover how Panel Server empowers you to retrieve security logs, providing valuable insights into system security and activity.



EcoStruxure Panel Server gives you access to the information you need to protect, maximize and optimize your power system.



Help keep people and assets safer



Maximize power availability



Optimize energy efficiency



Improve cybersecurity

All-in-one gateway

- Separates your OT network from your IT network
- Wireless data concentrator
- Modbus RS485 to Modbus TCP/IP
- Supports multiple Ethernet connections for serving information to edge control software and cloud applications

Simple commissioning

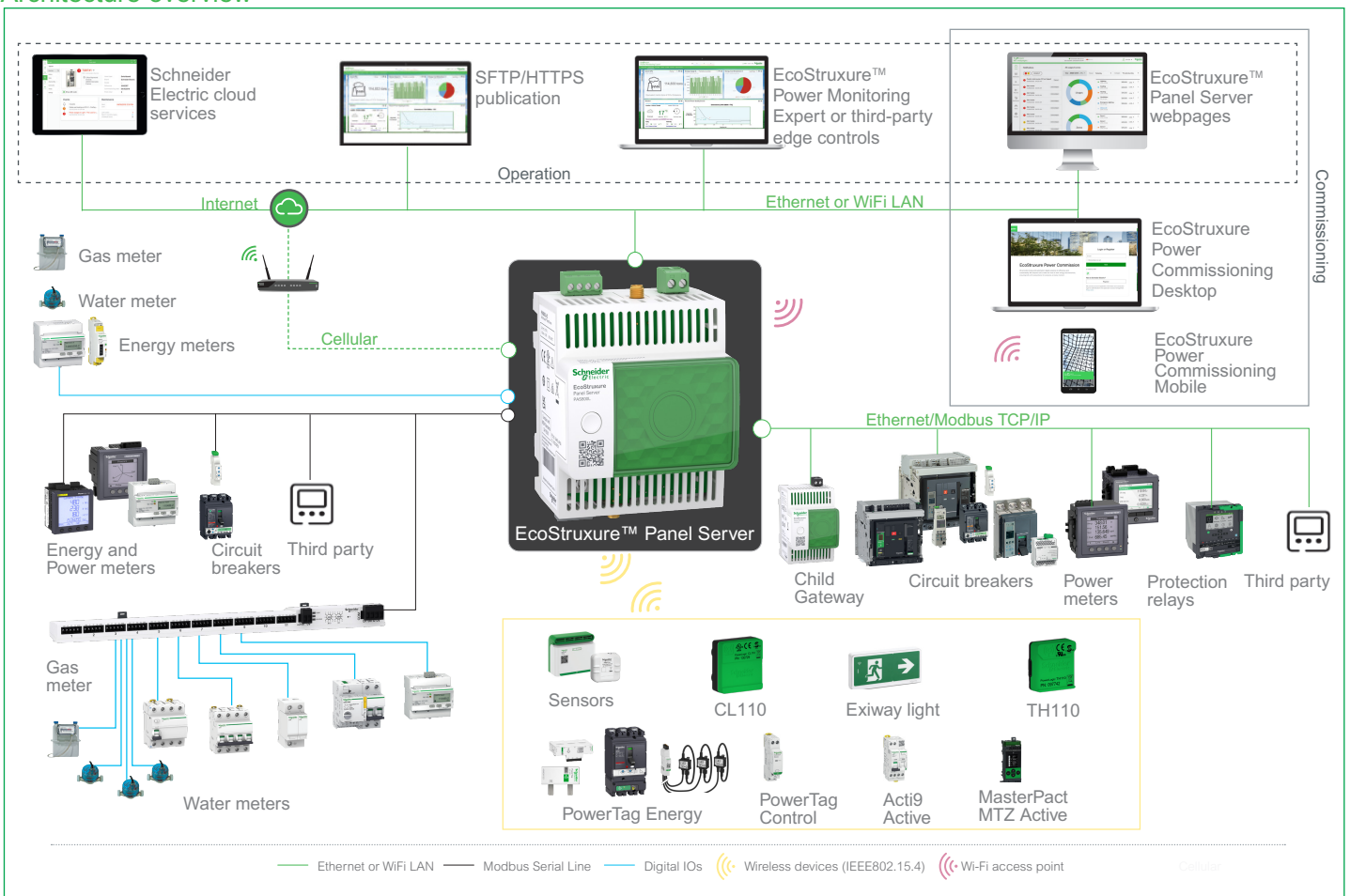
- EcoStruxure™ Power Commission software
- Device auto discovery
- Generation of acceptance reports to validate gateway configuration
- Commissioning via Ethernet or Wi-Fi infrastructure
- Mobile Commissioning via Wi-Fi Access point

Intuitive operation

- User-friendly webpages offer first-level monitoring
- Contextualized data and operational insights
- Simple alarm setup for email notification
- Standardized IEC 62974-1 compliant datalogger and energy server



Architecture overview



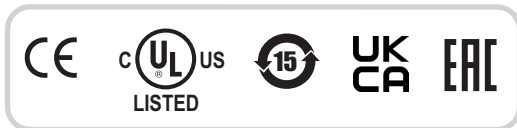
Panel Server Entry



Panel Server Entry - Front ISO view

Standards & certifications

- IEC 61010-1
- IEC 61010-2-201
- UL 61010-1
- UL 61010-2-201
- IEC 62974-1
- ETSI EN 301 489-1 V.2.2.3
- ETSI EN 301 489-17 V.3.2.4
- IEC 61326-1
- IEC 62974-1
- EN50581
- EN 62321
- EN 62474
- ETSI EN 300 328 V2.2.2



Compatible with a large set of wireless sensors, PowerTag Energy, Heat Tag, and others. PAS400 is the perfect fit for small networks or installations where space is a challenge.

Functions

- Optimized gateway to retrieve data from your wireless devices.
- Connect to your monitoring and control software such as EcoStruxure™ Power Monitoring Expert, EcoStruxure™ Power Operation or to your Building Management System.
- Connect to Schneider Electric cloud applications such as EcoStruxure™ Energy Hub or Asset Advisor.
- Ease of commissioning with EcoStruxure™ Power Commission software or directly through the Panel Server webpages, enabling device plug-and-play and auto-discovery features.
- Ease of operation with user friendly embedded webpages and data contextualization for more relevant analytics.

Main features

- Power Supply 110...277 Vac/dc
- Designed to match with electrical switchboard environment (temperature and humidity electromagnetic compatibility).
- One Ethernet 10Base-T/100Base-T port
- Connect easily to the embedded webpages through your Wi-Fi infrastructure or Ethernet connection.
- IEEE 802.15.4 wireless communication
- Modbus TCP/IP server
- Support of HTTPS, NTP, SNTP, and DHCP client with proxy management.
- Wireless devices concentrator to Modbus TCP/IP
- Designed through a Secured Development Life Cycle in accordance to IEC 62443-4-1.
- Commissioning through EcoStruxure™ Power Commission or through Embedded Web-Pages.
- Wi-Fi Access point connection for seamless commissioning with EPC-Mobile.
- Embedded web server for real-time measurement visualization, and power consumption.
- Real-time alarm display

Comm. Reference	Description
PAS400	Panel Server Entry 110...277 V ac/dc

Panel Server Entry

Panel Server Entry technical specification

Technical data		EcoStruxure™ Panel Server Entry
Commercial Reference		PAS400
Power Supply		
Voltage		110...277 Vac/dc
Tolerance		± 10%
Frequency		45...65 Hz
Maximum consumption		3 W, 10 VA
Ethernet & Wi-Fi		
Ethernet 10/100base T	Number of Ports	Single RJ45 Port
	PoE 802.3af and 802.3at Class 0	NA
Wi-Fi infrastructure	Supported Frequency	2.4 and 5 GHz
Wi-Fi access point	Supported Frequency	2.4 GHz
TCP/IP		Yes
IP V4/IP V6		Yes
DPWS		Yes
DHCP	Client	Yes
	Server (Separate Network)	No
Modbus TCP/IP Server	Max. number of client connection	64
Modbus TCP/IP Client	Max. number of Modbus TCP/IP devices	NA
Schneider Electric Cloud Services		Yes
HTTPS		Yes
External Wi-Fi/Antenna		No
Wireless Devices (IEEE 802.15.4)		
Number of devices	Total for mixed network	20 devices
	PowerTag Energy and Easergy TH110/ CL110	20 devices
	Other type of devices ⁽⁺¹⁾	20 devices
External IEEE 802.15.4 Antenna		No
Serial Ports		
Modbus RS485 Client	Max. number of devices w/o repeater	NA
	Max. number of devices with repeater	NA
	Maximum Length	NA
	Baud Rate	NA
Functionality		
Data Buffering for Data Publication		1 month ⁽⁺³⁾
Data Publication		Over Cloud Application SFTP or HTTPS server
Data Logger and Web-Server	Historical Data Logging	No ⁽⁺²⁾
	Historical Event Logging	No
	Real-Time data and event monitoring	Yes
	Historical data trending	No
Time Management	RTC (with battery)	Yes
	TimeUpdate (NTP and SNTP)	Yes
Digital inputs		
Two DI	WAGES & Dry-Contact	No
Environmental		
Protection Degree	Front Face	IP40
	Others	IP20
Overvoltage Category		OVC III
Polution Degree		2
Temperature	Operation	-25...+60 °C
	Storage	-40...+85 °C
Altitude Maximum		< 2000 m
Relative Humidity		5...95 %
Mechanical		
Form factor		Acti9
Installation		Din Rail
Width		54 mm
Weight		163 g
Standard and Certification		
Certifications		CE, CULus, CB, RCM, UKCA, FCC, IC, RF and, Marine certification (DNV)
Standards		EN/ IEC 61010-1, EN/IEC 61010-2-201, UL 61010-1, UL 61010-2-201, CSA C22.2 No 61010-1-12, CAN/ CSA C22.2 No 61010-2-201, EN IEC 62974-1, EN/IEC 61326-1, ETSI EN 301-489-1, ETSI EN 301-489-17, ETSI EN 300-328, IEEE 802.15.4, IEEE 802.11b/g/n, IEEE 802.3 af/at, EN 301-893, 47 CFR FCC Part 15, Subpart B, Class A, EN IEC 62311, ANSI C63, IACS UR E10 and, DNVGL-CG-0339

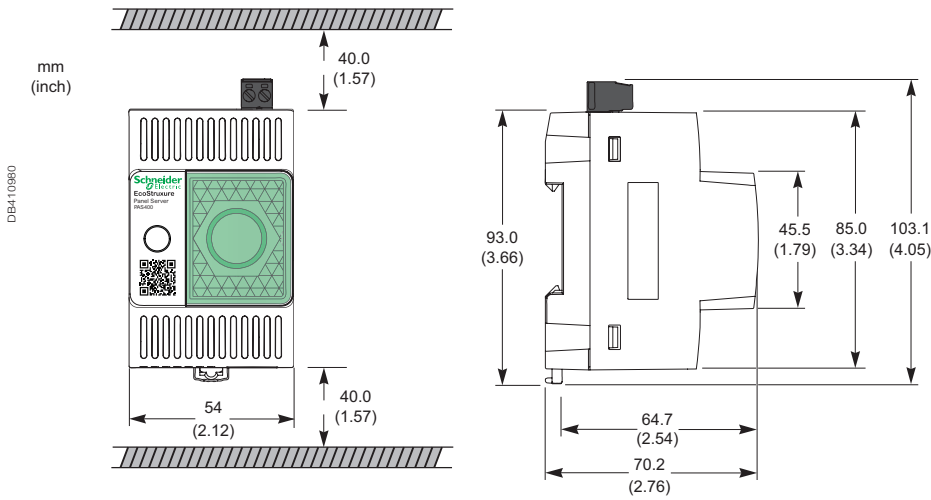
[+1] Consult the User Manual or other documentations to check the limit applicable to your wireless device.

[+2] Lower limits may apply depending on the firmware version, the serial line length, and the type of device(s). Consult the User Manual, Releases Notes or other documentations.

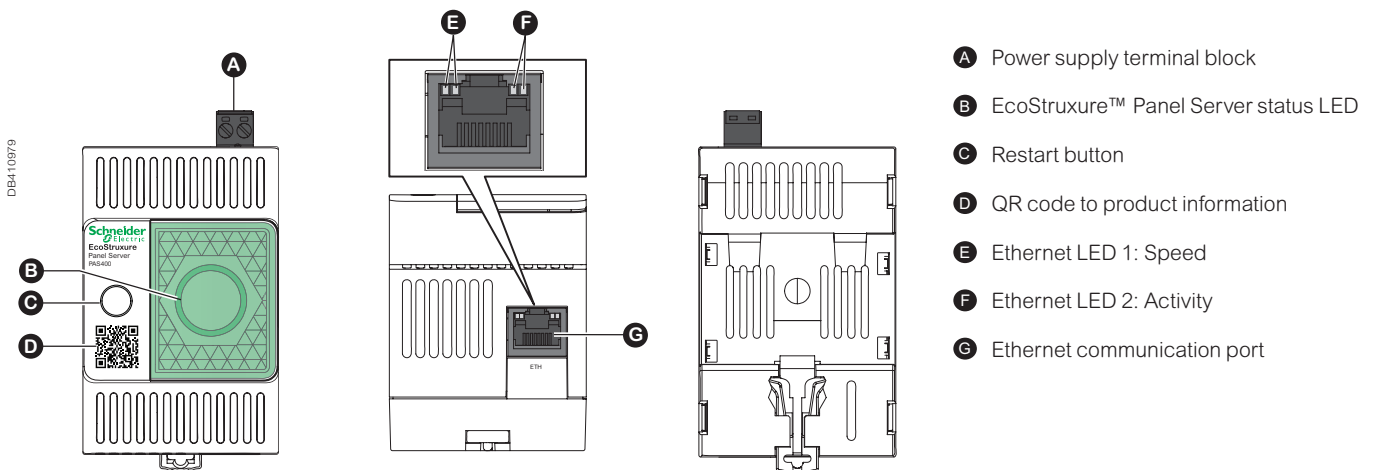
[+3] Applicable for Cloud, SFTP and HTTPS publication. Lower limits may apply according to the size of your network.

Panel Server Entry

Panel Server Entry dimensions



Panel Server Entry physical descriptions



Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.

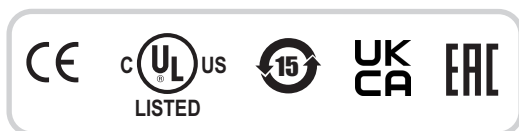
Panel Server Universal



Panel Server Universal - Front ISO view

Standards and certifications

- IEC 61010-1
- IEC 61010-2-201
- UL 61010-1
- UL 61010-2-201
- IEC 62974-1
- ETSI EN 301 489-1 V.2.2.3
- ETSI EN 301 489-17 V.3.2.4
- IEC 61326-1
- IEC 62974-1
- EN50581
- EN 62321
- EN 62474
- ETSI EN 300 328 V2.2.2



Comm. Reference	Description
PAS600	Panel Server Universal with 110...277 Vac/dc power supply
PAS600L	Panel Server Universal with 24 Vdc power supply
PAS600P	Panel Server Universal with PoE power supply
PAS600LWD	Wired by Design Panel Server Universal with 24 Vdc power
PAS600PWD	Wired by Design Panel Server Universal with PoE power supply

All-in-one and Wired by Design Panel Server

- The All-in-one Panel Server Universal, PAS600, PAS600L, PAS600P and are designed to retrieve data from wireless, Modbus, and Ethernet based protocols to offer versatility and adaptability.
- Panel Server Universal Wired by Design, PAS600LWD and PAS600PWD, are designed for specific cybersecure sensitive installations, dedicated to wired communication protocols (Modbus, Ethernet) and PAS embedded digital inputs (PAS600LWD).

Functions

- Connect to your monitoring and control software such as EcoStruxure™ Power Monitoring Expert, EcoStruxure™ Power Operation or to your Building Management System.
- Connect to Schneider Electric cloud applications such as EcoStruxure™ Energy Hub or Asset Advisor.
- Ease of commissioning with EcoStruxure™ Power Commission software or directly through the Panel Server webpages, enabling device plug-and-play and auto-discovery features.
- Ease of operation with user friendly embedded webpages, and data contextualization for more relevant analytics.

Main features

- Power Supply 24 Vdc, 110...277 Vac/dc, PoE-PD (CLASS 0 and IEEE 802.3af/at)
- Designed to match demanding electrical switchboard environment (temperature and humidity electromagnetic compatibility).
- Two Ethernet 10Base-T/100Base-T port (supporting switched or separated network topology).
- Connect easily to the embedded webpages through your Wi-Fi Infrastructure (All-in-one Panel Server) or Ethernet connection.
- Modbus RS485 serial communication
- IEEE 802.15.4 wireless communication (All-in-one Panel Server Universal).
- Modbus TCP/IP server and client
- Support of HTTPS, NTP, SNTP, and DHCP client with proxy management.
- Modbus RS485 to Modbus TCP/IP Gateway
- Wireless devices concentrator to Modbus TCP/IP (All-in-one Panel Server Universal)
- Two digital inputs (24 Vdc version) for contact information or WAGES pulse meter.
- Designed through a Secured Development Life Cycle in accordance to IEC 62443-4-1.
- Commissioning through EcoStruxure™ Power Commission or through Embedded Web-Pages.
- Wi-Fi Access point connection for seamless commissioning with EPC-Mobile (All-in-one Panel Server Universal).
- Support for RSTP protocol to help IT specialists re-establish communication paths through Ethernet after an interruption is detected.
- Embedded web server for real-time measurement visualization, and power consumption.
- Real-time alarm display

Accessories for All-in-one Panel Server Universal

- Wi-Fi external antenna (PASA-ANT1) for PAS600, PAS600P and PAS600L
- IEEE 802.15.4 external antenna (PASA-ANT1) for PAS600, PAS600P and PAS600L depending on hardware version ^(*)

Panel Server Universal

Panel Server Universal technical specification

Technical data		EcoStruxure™ Panel Server Universal				
Commercial Reference		PAS600	PAS600L	PAS600P	PAS600LWD	PAS600PWD
Power Supply						
Voltage		110...277 Vac/dc	24 Vdc	via POE	24 Vdc	via POE
Tolerance		± 10%		NA	± 10%	NA
Frequency		45...65 Hz	NA			
Maximum consumption		3W/10 VA	3W	3,5W		
Ethernet & Wi-Fi						
Ethernet	Number of Ports	Two RJ45 ports				
10/100base T	PoE 802.3af and 802.3at Class 0	No		1 port (PD)	No	1 port (PD)
Wi-Fi infrastructure	Supported Frequency	2.4 and 5 GHz ^[*1]			NA	NA
Wi-Fi access point	Supported Frequency	2.4 GHz			NA	NA
TCP/IP		Yes				
IP V4/IP V6		Yes				
DPWS		Yes				
DHCP	Client	Yes				
	Server (Separate Network)	No				
Modbus TCP/IP Server	Max. number of client connection	64				
Modbus TCP/IP Client	Max. number of Modbus TCP/IP devices	128 ^[*2]				
Schneider Electric Cloud Services		Yes				
HTTPS		Yes				
External Wi-Fi/Antenna		PASA-ANT1			NA	NA
Wireless Devices (IEEE 802.15.4)						
Number of devices	Total for mixed network	up to 40 devices ^[*2]			NA	NA
	PowerTag Energy, Acti9 Active, Wireless breaker auxiliaries	up to 85 devices ^[*2]			NA	NA
	Easergy TH110/CL110, environmental sensors	up to 100 devices ^[*2]			NA	NA
External IEEE 802.15.4 Antenna		PASA-ANT1 ^[*1]			NA	NA
Serial Ports						
Modbus RS485 Client	Max. number of devices	32 devices				
	Maximum Length	1000 m				
	Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200				
Functionality						
Data Buffering for Data Publication		1 month ^[*3]				
Data Publication		Over Cloud Application, SFTP or HTTPS server				
Data Logger and Web-Server	Historical Data Logging	No				
	Historical Event Logging	No				
	Real-Time data and event monitoring	Yes				
	Historical data trending	No				
Time Management	RTC (with battery)	Yes				
	TimeUpdate (NTP and SNTP)	Yes				
Digital Inputs						
Two DI	WAGES & Dry-Contact	No	Yes	No	Yes	No
Environmental						
Protection Degree	Front Face	IP40				
	Others	IP20				
OverVoltage Category		OVC III				
Polution Degree		2	3	2	3	2
Temperature	Operation	-25...+70 °C				
	Storage	-40...+85 °C				
Altitude Maximum		< 2000 m	< 5000 m ^[*4]	< 2000 m	< 5000 m ^[*4]	< 2000 m
Relative Humidity		5...95%				
Mechanical						
Form factor		Acti9				
Installation		Din Rail				
Width		72 mm				
Weight		201 g	181 g	184 g	180 g	182 g
Standard & Certification						
Certifications		CE, CULus, CB, RCM, UKCA, FCC, IC, RF and, Marine certification (DNV)			CE, CULus, CB, RCM, UKCA, FCC, IC and, Marine certification (DNV)	
Standards		EN/IEC 61010-1, EN/IEC 61010-2-201, UL 61010-1, UL 61010-2-201, CSA C22.2 No 61010-1-12, CAN/CSA C22.2 No 61010-2-201, EN/IEC 62974-1, EN/IEC 61326-1, ETSI EN 301-489-1, ETSI EN 301-489-17, ETSI EN 300-328, IEEE 802.15.4, IEEE 802.11b/g/n, IEEE 802.3 af/at, IEC 60945, 47 CFR FCC Part 15, Subpart B, Class A, EN/IEC 62311, ANSI C63, IACS UR E10, DNVGL-CG-0339 and, EC62443-3-3 (PAS600L)			EN/IEC 61010-1, EN/IEC 61010-2-201, UL 61010-1, UL 61010-2-201, CSA C22.2 No 61010-1-12, CAN/CSA C22.2 No 61010-2-201, EN/IEC 62974-1, EN/IEC 61326-1, IEC 60945, 47 CFR FCC Part 15, Subpart B, Class A, IACS UR E10, DNVGL-CG-0339 and, EN 62947-1	

[*1] Lower limits may apply according to your hardware version. Consult the User Manual to check the limit applicable to your devices.

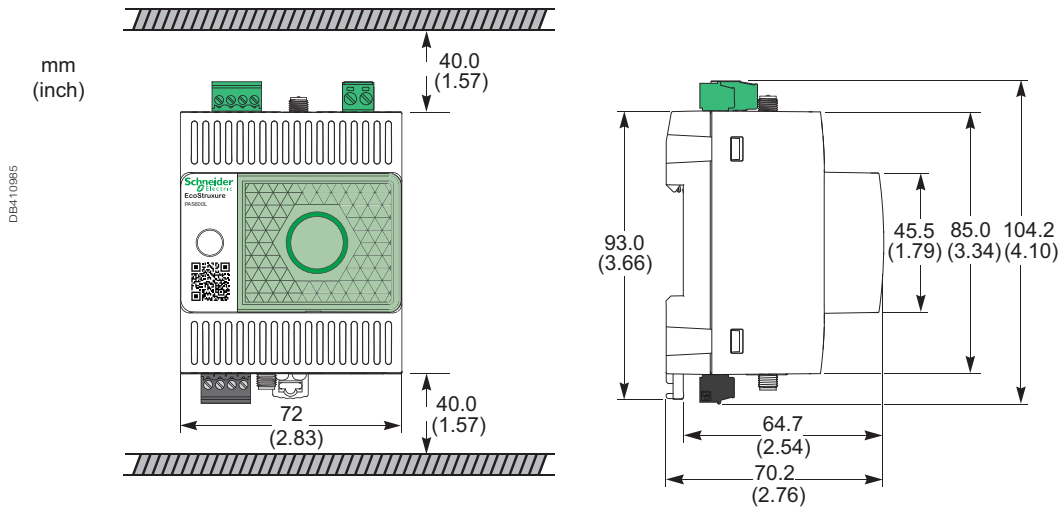
[*2] Lower limits may apply depending on the firmware version, the serial line length, and the type of device(s). Consult the User Manual, Release Notes or other documentations.

[*3] Applicable for cloud, SFTP and HTTPS publication. Lower limits may apply according to the size of your network.

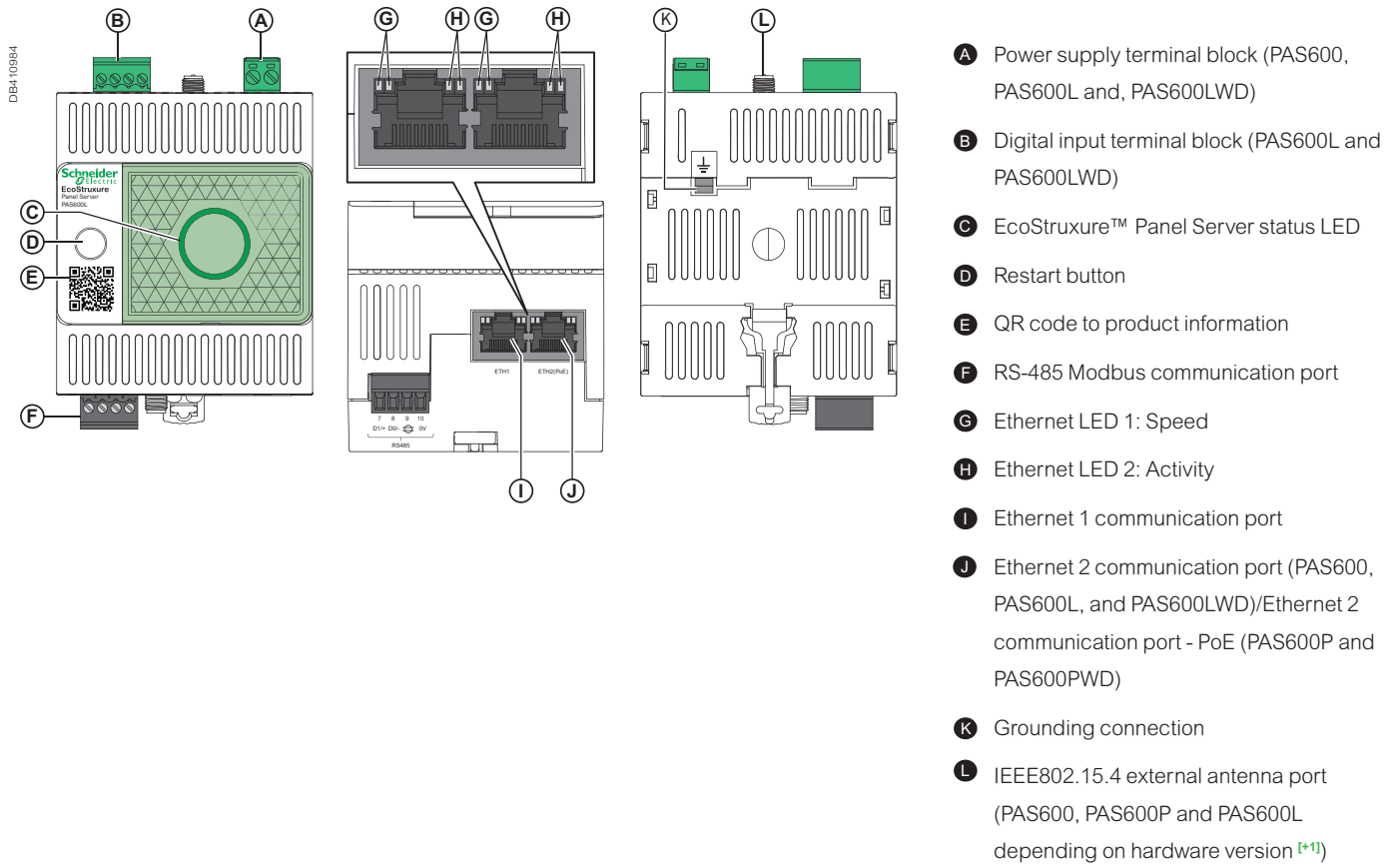
[*4] With an altitude between 2000 m and 4000 m, the operating temperature tolerance is of -25...+60 °C. Between 4000 m and 5000 m, the operating temperature tolerance will be decreased of 1 °C every additional 200 m.

Panel Server Universal

Panel Server Universal dimensions



Panel Server Universal physical descriptions



[+1] Lower limits may apply according to your hardware version. Consult the User Manual to check the limit applicable to your devices.

Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.

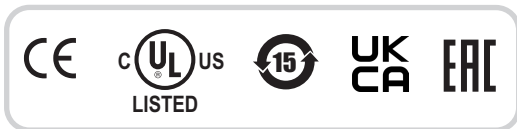
Panel Server Advanced



Panel Server Advanced- Front ISO view

Standards & certifications

- IEC 61010-1
- IEC 61010-2-201
- UL 61010-1
- UL 61010-2-201
- IEC 62974-1
- ETSI EN 301 489-1 V.2.2.3
- ETSI EN 301 489-17 V.3.2.4
- IEC 61326-1
- IEC 62974-1
- EN50581
- EN 62321
- EN 62474
- ETSI EN 300 328 V2.2.2



Comm. Reference	Description
PAS800L	Panel Server Advanced with 24 Vdc power supply
PAS800P	Panel Server Advanced with PoE power supply
PAS800	Panel Server Advanced with 110...277 Vac/dc power supply

Panel Server has Data Logger and Local Energy Server capabilities. It embodies the first step into energy monitoring. Follow, analyze and compare your loads consumption to enable energy savings.

Functions

- An all-in-one gateway to retrieve data from both your wireless IEEE 802.15.4 devices and Modbus devices.
- Monitor up to three years historized data and analyze your energy consumption directly through the Panel Server Advanced embedded webpages.
- Connect to your monitoring and control software such as EcoStruxure™ Power Monitoring Expert, EcoStruxure™ Power Operation or to your Building Management System.
- Connect to Schneider Electric cloud applications such as EcoStruxure™ Energy Hub or Asset Advisor.
- Ease of commissioning with EcoStruxure™ Power Commission software or directly through the Panel Server webpages, enabling device plug-and-play and auto-discovery features.
- Ease of operation with user friendly embedded webpages, and data contextualization for more relevant analytics.

Main features

- Power Supply 24 Vdc, 110...277 Vac/dc, PoE-PD (CLASS 0, IEEE802.3af/at)
- Designed to match demanding electrical switchboard environment (temperature, humidity electromagnetic compatibility)
- Two Ethernet 10Base-T/100Base-T port (supporting switched or separated network topology)
- Connect easily to the embedded webpages through your Wi-Fi Infrastructure or Ethernet connection
- Modbus RS485 serial communication
- IEEE 802.15.4 wireless communication
- Modbus TCP/IP server and client
- Support of HTTPS, NTP, SNTP, and DHCP client with proxy management
- Modbus RS485 to Modbus TCP/IP Gateway
- Wireless devices concentrator to Modbus TCP/IP
- Two digital inputs (24 Vdc version only) for contact information or WAGES pulse meter
- Designed through a Secured Development Life Cycle in accordance to IEC 62443-4-1
- Commissioning through EcoStruxure™ Power Commission or though Embedded Web-Pages
- Wi-Fi Access point connection for seamless commissioning with EPC-Mobile
- Support for RSTP protocol to help IT specialists re-establish communication paths through Ethernet after an interruption is detected
- Embedded web server for real-time measurement and alarm visualization, energy and power consumption by usage and location, 3 years historical trending and dashboarding
- 3 years Data Logger with 32 GB memory
- Real-time alarm display and e-mail notification
- Event and alarm historization and dashboarding

Compatible accessories

- Wi-Fi external antenna (PASA-ANT1)
- IEEE 802.15.4 external antenna (PASA-ANT1)

Panel Server Advanced

Panel Server Advanced technical specification

Technical data		EcoStruxure™ Panel Server Advanced		
Commercial Reference		PAS800	PAS800L	PAS800P
Power Supply				
Voltage		110...277 Vac/dc	24 Vdc	PoE
Tolerance		± 10 %	± 10 %	
Frequency		45...65 Hz	NA	
Maximum consumption		3 W/10 VA	3 W	3.5 W
Ethernet and Wi-Fi				
Ethernet 10/100base T	Number of Ports	Two RJ45 ports		
	PoE 802.3af and 802.3at Class 0	No		1 port (PD)
Wi-Fi Infrastructure	Supported Frequency	2.4 & 5 GHz		
Wi-Fi access point	Supported Frequency	2.4 GHz		
TCP/IP		Yes		
IP V4/IP V6		Yes		
DPWS		Yes		
DHCP	Client	Yes		
	Server (Separate Network)	No		
Modbus TCP/IP Server	Max. number of client connection	64		
Modbus TCP/IP Client	Max. number of Modbus TCP/IP devices	128 ^[*2]		
Schneider Electric Cloud Services		Yes		
HTTPS		Yes		
External Wi-Fi/Antenna		PASA-ANT1		
Wireless Devices (IEEE 802.15.4)				
Number of devices	Total for mixed network	up to 40 devices ^[*2]		
	PowerTag Energy, Acti9 Active, Wireless breaker auxiliaries	up to 85 devices ^[*2]		
	Easergy TH110/CL110, environmental sensors	up to 100 devices ^[*2]		
External IEEE 802.15.4 Antenna		PASA-ANT1		
Serial Ports				
Modbus RS485 Client	Max. number of devices	32 devices		
	Maximum Length	1000 m		
	Baud Rate	1200, 4800, 9600, 19200, 38400, 57600, and 115200		
Functionality				
Data Buffering for Data Publication		3 months ^[*3]		
Data publication		Over Cloud Application, SFTP or HTTPS server		
Data Logger and Web-Server	Historical Data Logging	3 years		
	Historical Event Logging	Yes ^[*2]		
	Real-Time data and event monitoring	Yes		
	Historical data trending	Yes		
Time Management	RTC (with battery)	Yes		
	TimeUpdate (NTP & SNTP)	Yes		
Digital inputs				
Two DI	WAGES & Dry-Contact	No	Yes	No
Environmental				
Protection Degree	Front Face	IP40		
	Others	IP20		
OverVoltage Category		OVC III		
Pollution Degree		2	3	2
Temperature	Operation	-25...70 °C		
	Storage	-40...85 °C		
Altitude Max.		< 2000 m	< 5000 m ^[*4]	< 2000 m
Relative Humidity		5...95%		
Mechanical				
Form factor		Acti9		
Installation		Din Rail		
Width		72 mm		
Weight		206 g	186 g	184 g
Standard & Certification				
Certifications		CE, CULus, CB, RCM, UKCA, FCC, IC, RF, and Marine certification (DNV)		
Standards		EN/ IEC 61010-1, EN/IEC 61010-2-201, UL 61010-1, UL 61010-2-201, CSA C22.2 No 61010-1-12, CAN/CSA C22.2 No 61010-2-201, EN IEC 62974-1, EN/IEC 61326-1, ETSI EN 301-489-1, ETSI EN 301-489-17, ETSI EN 300-328, IEEE 802.15.4, IEEE 802.11b/g/n, IEEE 802.3 af/at, EN 301-893, IEC 60945, 47 CFR FCC Part 15, Subpart B, Class A, and EN IEC 62311		

[*1] Lower limits may apply according to your hardware version. Consult the User Manual to check the limit applicable to your wireless devices.

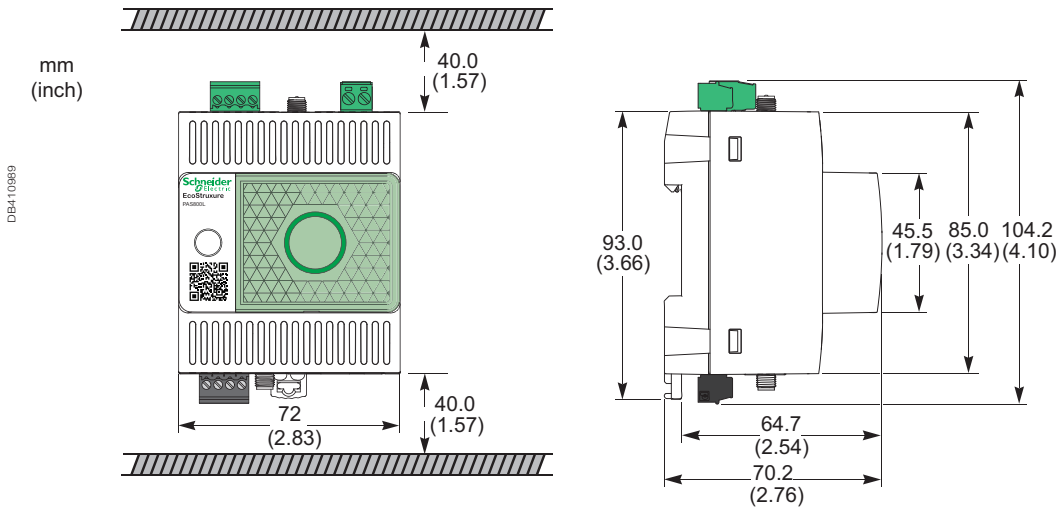
[*2] Lower limits may apply depending on the firmware version, the serial line length, and the type of device(s). Consult the User Manual, Release Notes or other documentations.

[*3] Applicable for Cloud, SFTP and HTTPS publication. Lower limits may apply according to the size of your network.

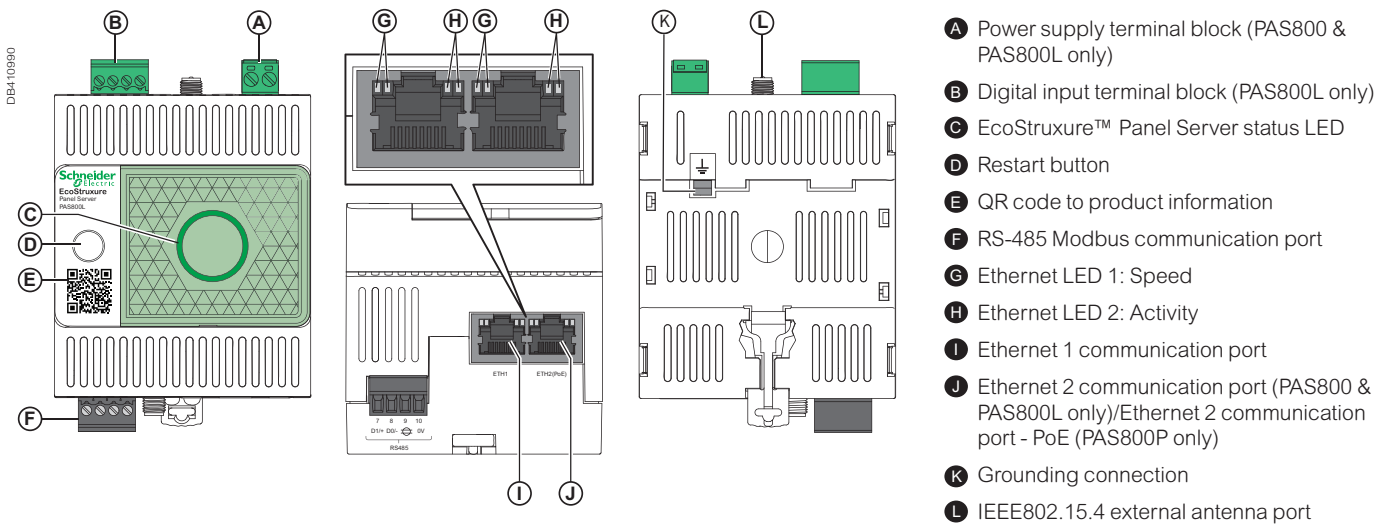
[*4] With an altitude between 2000 m and 4000 m, the operating temperature tolerance is of -25...+60 °C. Between 4000 m and 5000 m, the operating temperature tolerance will be decreased of 1 °C every additional 200 m.

Panel Server Advanced

Panel Server Advanced dimensions



Panel Server Advanced physical descriptions



Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.

EcoStruxure™ I/O Smart Link

Monitoring, Remote Control, Indication

PB107753-175



IEC/EN 61131-2

I/O Smart Link Modbus Slave is used to transfer data from I/O devices to a PLC or monitoring system via the communication system:

- Modbus serial line for I/O Smart Link Modbus Slave

Functions

Data transmission between the network and I/O devices

- Circuit breakers, residual current circuit breakers, residual current devices:

- open/closed state
- tripped state
- number of opening/closing cycles
- number of tripping actions.

- Contactors, impulse relays:

- opening control
- closing control
- open/closed state
- number of opening/closing cycles
- total period of operation of the load (device closed).

- Remote controlled circuit breaker/Reflex iC60:

- opening control
- closing control
- open/closed state
- tripped state
- number of opening/closing cycles
- total period of operation of the load.

- Power meters:

- number of pulses recorded
- pulse value setting (e.g. kWh)
- total consumption recorded
- estimate of power consumption.

All the data are stored in memory: number of cycles, consumption, period of operation, even in the event of a power failure.

I/O Smart Link can be interfaced with any device having 24 V DC digital inputs/ outputs.

No configuration of the connected products is required.

When I/O Smart Link is switched on, communication automatically adjusts to the Modbus Master or Ethernet (PLC, control station) communication parameters.

Installation

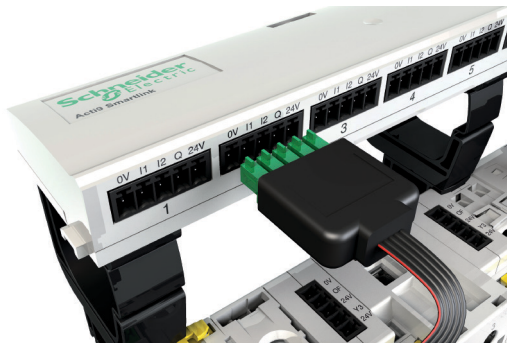
- Mounting in switchboards:

- width 24 modules per row
- minimum spacing between rails 150 mm.

- Mounting on

- DIN rail, with mounting kit A9XMFA04
- Linergy FM 80 A, with locking clips supplied
- Linergy FM 200 A, with mounting kit A9XM2B04.

PB107757-47



DB404502



DB406142

EAC

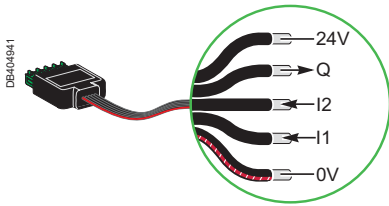
CE

UK
CA

Country approval pictograms



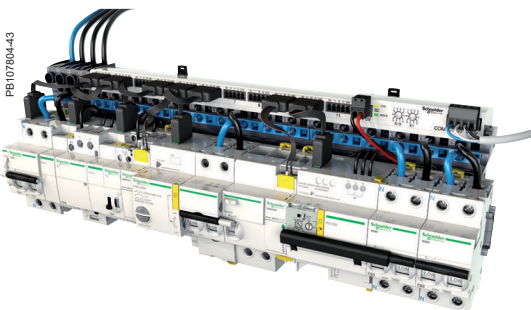
I/O Smart Link Modbus Slave



A9XCAU06

Catalog numbers

I/O Smart Link				
Type		Set of		
I/O Smart Link Modbus Slave		1	A9XMSB11	
Supplied with	Modbus connector	1		
	24 V DC power supply connector	1		
	Locking clips for mounting on Linergy FM 80	2		
Accessories				
Prefabricated cables				
PB107754-12	With 2 connectors	100 mm	6	A9XCAS06
		160 mm	6	A9XCAM06
		450 mm	6	A9XCAH06
		870 mm	6	A9XCAL06
PB107755-5	With 1 connector	870 mm	6	A9XCAU06
		4000 mm	1	A9XCAC01
PB107756-7	Connectors	5-pin connectors (Ti24)	12	A9XC2412
	Mounting kit	DIN rail (4 feet, 4 straps, 4 adapters)	1	A9XMFA04
		Linergy FM 200 A (4 adapters)	1	A9XM2B04
		Back panel (2 angle brackets)	1	A9XMBP02
		Spare parts	Lock for Linergy FM 80 A (2 clips)	1



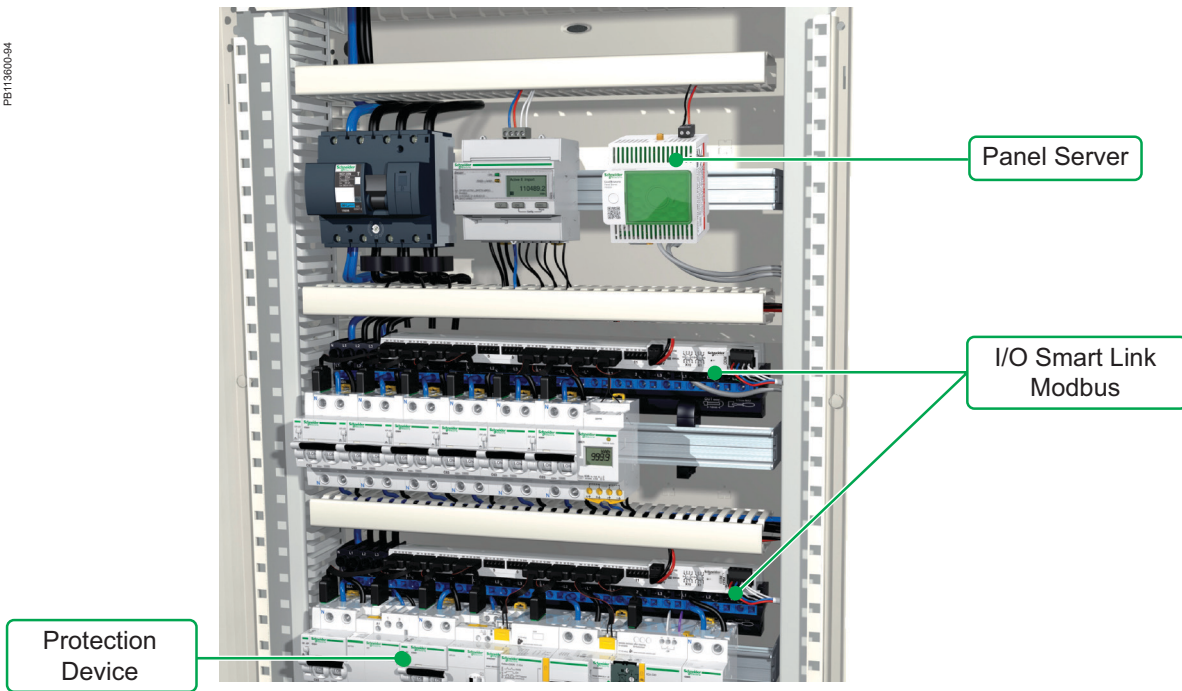
PB107804-43

Connectable devices

With Ti24 interface		
Type	Reference	Description
iACT24	A9C15924	Low-level control and indication auxiliary for iCT contactors
iATL24	A9C15424	Low-level control and indication auxiliary for iTL impulse relays
iOF+SD24	A9A26897 A9A26898	Low-level indication auxiliary for iC60, iID, ARA, RCA, iSW-NA
OF+SD24	A9N26899	Low-level indication auxiliary for C60, C120, DPN, RCCB/iD, C60H-DC
RCA	See module CA904011	Remote control with Ti24 interface
Reflex iC60	See module CA904012	Reflex iC60 with Ti24 interface
Without Ti24 interface		
Power meters with pulse output, e.g. IEM2000T		
Impulse meters complying with the IEC 62053-21 standard		
24 V DC indicator lamps, Harmony XVL range		
All loads not exceeding 100 mA, 24 V DC		
Light sensitive switches: example IC2000		
Timers, thermostats, time switches, load shedding devices		
All 24 V DC auxiliary contacts, IEC 61131-2 type 1		

Example of an Installation

PB113600-94



I/O Smart Link Modbus Slave

PB107755-175

Ti24 connector

11 input/output channels
Protected at input against voltage reversals

Protected at output by current limiting

- Pin 1: 0 V
- Pin 2: I1 Input 1
- Pin 3: I2 Input 2
- Pin 4: Q Output
- Pin 5: +24 V DC

24 V DC power supply connector

Protected against voltage reversals

- Pin1: 0 V
- Pin2:+24 V DC

Serial port connector

RS485 Modbus (Slave)

- Pin 1: D1 Modbus
- Pin 2: D0 Modbus
- Pin 3: shielding
- Pin 4: common/0 V



Signalisation

■ Indication of operation of the communication system and the state of I/O Smart Link Modbus Slave

Thumbwheels

■ Definition of the address in the Modbus network

Common technical characteristics

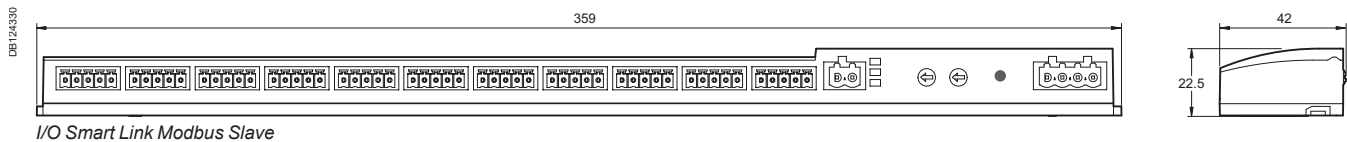
Power supply		
Rated		24 V DC \pm 20 %
Maximum input current		1.5 A
Maximum inrush current		3 A
Meter		
Capacity		2 ³² pulses per input
Input characteristics		
Number of channels	I/O Smart Link Modbus Slave	11 of 2-input channels
Type of input		Current collector Type 1 IEC 61131-2
Maximum cable length		500 m
Rated voltage		24 V DC
Voltage limits		24 V DC \pm 20 %
Rated current		2.5 mA
Maximum current		5 mA
Filtering time	In state 1	2 ms
	In state 0	2 ms
Isolation		No isolation between channels
Negative sequence voltage protection		Yes
Output characteristics		
Number of output channels	I/O Smart Link Modbus Slave	11
Type of output		24 V DC 0.1 A current source
Maximum cable length		500 m
Rated voltage	Voltage	24 V DC
	Maximum current	100 mA
Filtering time	In state 1	2 ms
	In state 0	2 ms
Voltage drop (voltage in state 1)		1 V max
Maximum inrush current		500 mA
Leakage current		0.1 mA
Overvoltage protection		33 V DC
Environmental characteristics		
Temperature	Operating	-25°C ... +60°C (if vertical mounting, limited to 50°C)
	Storage	-40°C ... +80°C
Tropicalization		Treatment 2 (relative humidity of 93% at 40°C)
Resistance to voltage dips		10 ms, class 3 as per IEC 61000-4-29
Degree of protection		IP20
Pollution degree		3
Altitude	Operating	0 ... 2000 m
Vibration resistance	As per IEC 60068.2.6	1 g / \pm 3.5 mm - 5 Hz to 300 Hz - 10 cycles
Shock resistance	As per IEC 60068.2.2 7	15 g / 11 ms
Immunity to electrostatic discharge	As per IEC 61000-4-2	Air: 8 kV Contact: 4 kV
Immunity to radiated magnetic fields	As per IEC 61000-4-3	10 V/m - 80 MHz to 3 GHz
Immunity to fast transients	As per IEC 61000-4-4	1 kV for inputs/outputs and Modbus communication. 2 kV for 24 DC power supply - 5 kHz - 100 kHz
Immunity to conducted magnetic fields	As per IEC 61000-4-6	10 V from 150 kHz to 80 MHz
Immunity to magnetic fields at mains frequency	As per IEC 61000-4-8	30 A/m
Resistance to corrosive atmospheres	As per IEC 60721-3-3	Level 3C2 on H ₂ S / SO ₂ / NO ₂ / Cl ₂
Fire resistance	For live parts	At 960°C 30 s / 30 s as per IEC 60 695-2-10 and IEC 60 695-2-11
	For other parts	At 650°C 30 s / 30 s as per IEC 60 695-2-10 and IEC 60 695-2-11
Salt spray test	As per IEC 60068.2.52	Severity 2
Environment		In compliance with the RoHS directive
Additional characteristics		
Duration of saving memory		10 years
Prefabricated cables characteristics		
Dielectric resistance		1 kV / 5 min
Minimum draw-out resistance		20 N

I/O Smart Link Modbus Slave technical characteristics

Characteristics of the Modbus link

Link	Modbus, RTU, RS485 serial connection	
Transmission	Transfer rate	9600 baud ... 115200 baud, self-adaptable
	Medium	Shielded cable, double twisted pair
Protocol	Master/Slave	
Type of device	Slave	
Modbus addressing range	1 to 99	
Maximum length of the bus	1000 m	
Type of bus connector	4-pin connector	

Dimensions (mm)



Weight (g)

I/O Smart Link**Type**

I/O Smart Link Modbus Slave	195
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Commercial Reference Numbers

Commercial reference number	Description
Current Transformers	
CT Ip/5 A ratio	
16550	44 x 66 x 37 Adapter for DIN rails Mounting plate
16551	56 x 84 x 60 Adapter for DIN rails Mounting plate, insulated locking screw
METSECT5CC004	CC 40 A
METSECT5CC005	CC 50 A
METSECT5CC006	CC 60 A
METSECT5CC008	CC 75 A
METSECT5CC010	CC 100 A
METSECT5CC013	CC 125 A
METSECT5CC015	CC 150 A
METSECT5CC020	CC 200 A
METSECT5CC025	CC 250 A
METSECT5MB025	MB 250 A
METSECT5MB030	MB 300 A
METSECT5MB040	MB 400 A
METSECT5MA015	MA 150 A
METSECT5MA020	MA 200 A
METSECT5MA025	MA 250 A
METSECT5MA030	MA 300 A
METSECT5MA040	MA 400 A
METSECT5MC025	MC 250 A
METSECT5MC030	MC 300 A
METSECT5MC040	MC 400 A
METSECT5MC050	MC 500 A
METSECT5MC060	MC 600 A
METSECT5MC080	MC 800 A
METSECT5MD050	MD 500 A
METSECT5MD060	MD 600 A
METSECT5MD080	MD 800 A
METSECT5CYL1	Cylinder 8.5 mm dia.
METSECT5CYL2	Cylinder 10.5 mm dia.
METSECT5COVER	sealable cover 60.5 x 22 x 23.5 mm for CT TI
METSECT5VV500	CT tropicalised 5000 5 bars 55x165
METSECT5VV600	CT tropicalised 6000 5 bars 55x165
METSECT5DA040	CT tropicalised 400 5 dual out. bars 32x65
METSECT5DA050	CT tropicalised 500 5 dual out. bars 32x65
METSECT5DA060	CT tropicalised 600 5 dual out. bars 32x65
METSECT5DA080	CT tropicalised 800 5 dual out. bars 32x65
METSECT5DA100	CT tropicalised 1000 5 dual out. bars 32x65
METSECT5DA125	CT tropicalised 1250 5 dual out. bars 32x65
METSECT5DA150	CT tropicalised 1500 5 dual out. bars 32x65
METSECT5DB100	CT tropicalised 1000 5 dual out. bars 38x127
METSECT5DB125	CT tropicalised 1250 5 dual out. bars 38x127
METSECT5DB150	CT tropicalised 1500 5 dual out. bars 38x127
METSECT5DB200	CT tropicalised 2000 5 dual out. bars 38x127
METSECT5DB250	CT tropicalised 2500 5 dual out. bars 38x127

Commercial reference number	Description
METSECT5DB300	CT tropicalised 3000 5 dual out. bars 38x127
METSECT5DC200	CT tropicalised 2000 5 dual out. bars 52x127
METSECT5DC250	CT tropicalised 2500 5 dual out. bars 52x127
METSECT5DC300	CT tropicalised 3000 5 dual out. bars 52x127
METSECT5DC400	CT tropicalised 4000 5 dual out. bars 52x127
METSECT5DD100	CT tropicalised 1000 5 dual out. bars 34x84
METSECT5DD125	CT tropicalised 1250 5 dual out. bars 34x84
METSECT5DD150	CT tropicalised 1500 5 dual out. bars 34x84
METSECT5DE100	CT tropicalised 1000 5 dual out. bars 54x102
METSECT5DE125	CT tropicalised 1250 5 dual out. bars 54x102
METSECT5DE150	CT tropicalised 1500 5 dual out. bars 54x102
METSECT5DE200	CT tropicalised 2000 5 dual out. bars 54x102
METSECT5DH125	CT tropicalised 1250 5 dual out. bars 38x102
METSECT5DH150	CT tropicalised 1500 5 dual out. bars 38x102
METSECT5DH200	CT tropicalised 2000 5 dual out. bars 38x102
Split core CTs	
Busbar Type H	
Frame 1	
METSECT5HA015	IEC Split Core CT Cable 150/5 A 1 VA cl.1
METSECT5HA020	IEC Split Core CT Cable 200/5 A 1.5 VA cl.1
METSECT5HA025	IEC Split Core CT Cable 250/5 A 1 VA cl.0.5
Frame 2	
METSECT5HD025	IEC Split Core CT Cable 250/5 A 1 VA cl.1
METSECT5HD030	IEC Split Core CT Cable 300/5 A 1.5 VA cl.1
METSECT5HD040	IEC Split Core CT Cable 400/5 A 2.5 VA cl.1
METSECT5HD050	IEC Split Core CT Cable 500/5 A 1VA cl.0.5
Frame 3	
METSECT5HG010	IEC Split Core CT Cable 100/5 A 1.5 VA cl.3
METSECT5HG013	IEC Split Core CT Cable 125/5 A 2.5 VA cl.3
METSECT5HG015	IEC Split Core CT Cable 150/5 A 3 VA cl.3
METSECT5HG020	IEC Split Core CT Cable 200/5 A 3 VA cl.3
METSECT5HG025	IEC Split Core CT Cable 250/5 A 3 VA cl.3
METSECT5HG030	IEC Split Core CT Cable 300/5 A 2.5 VA cl.1
METSECT5HG040	IEC Split Core CT Cable 400/5 A 5 VA cl.1
METSECT5HG050	IEC Split Core CT Cable 500/5 A 5 VA cl.1
METSECT5HG060	IEC Split Core CT Cable 600/5 A 5 VA cl.1
Frame 4	
METSECT5HJ030	IEC Split Core CT Cable 300/5 A 2.5 VA cl.1
METSECT5HJ040	IEC Split Core CT Cable 400/5 A 5VA cl.1
METSECT5HJ050	IEC Split Core CT Cable 500/5 A 5VA cl.1
METSECT5HJ060	IEC Split Core CT Cable 600/5 A 2.5 VA cl.0.5
METSECT5HJ075	IEC Split Core CT Cable 750/5 A 2.5 VA cl.0.5
METSECT5HJ080	IEC Split Core CT Cable 800/5 A 2.5 VA cl.0.5

PowerLogic™ Commercial Reference Numbers

Commercial reference number	Description
Frame 5	
METSECT5HM030	IEC Split Core CT Cable 300/5 A 2.5 VA cl.1
METSECT5HM040	IEC Split Core CT Cable 400/5 A 5 VA cl.1
METSECT5HM050	IEC Split Core CT Cable 500/5 A 5 VA cl.1
METSECT5HM060	IEC Split Core CT Cable 600/5 A 2.5 VA cl.0.5
METSECT5HM075	IEC Split Core CT Cable 750/5 A 2.5 VA cl.0.5
METSECT5HM080	IEC Split Core CT Cable 800/5 A 2.5 VA cl.0.5
Frame 6	
METSECT5HP025	IEC Split Core CT Cable 250/5 A 1.5 VA cl.1
METSECT5HP030	IEC Split Core CT Cable 300/5 A 2.5 VA cl.1
METSECT5HP040	IEC Split Core CT Cable 400/5 A 5 VA cl.1
METSECT5HP050	IEC Split Core CT Cable 500/5 A 5 VA cl.1
METSECT5HP060	IEC Split Core CT Cable 600/5 A 5 VA cl.1
METSECT5HP075	IEC Split Core CT Cable 750/5 A 5 VA cl.1
METSECT5HP080	IEC Split Core CT Cable 800/5 A 5 VA cl.1
METSECT5HP100	IEC Split Core CT Cable 1000/5 A 5 VA cl.1
Busbar Type G	
Frame 7	
METSECT5GA010	IEC CT Split Core Busbar 100/5 A 1.25 VA cl.3
METSECT5GA015	IEC CT Split Core Busbar 150/5 A 1.5 VA cl.3
METSECT5GA020	IEC CT Split Core Busbar 200/5 A 2.5 VA cl.3
METSECT5GA025	IEC CT Split Core Busbar 250/5 A 1.5 VA cl.1
METSECT5GA030	IEC CT Split Core Busbar 300/5 A 3.75 VA cl.1
METSECT5GA040	IEC CT Split Core Busbar 400/5 A 1 VA cl.0.5
Frame 8	
METSECT5GD025	IEC CT Split Core Busbar 250/5 A 1.5 VA cl.1
METSECT5GD030	IEC CT Split Core Busbar 300/5 A 2.5 VA cl.1
METSECT5GD040	IEC CT Split Core Busbar 400/5 A 1 VA cl.0.5
METSECT5GD050	IEC CT Split Core Busbar 500/5 A 2.5 VA cl.0.5
METSECT5GD060	IEC CT Split Core Busbar 600/5 A 2.5 VA cl.0.5
METSECT5GD075	IEC CT Split Core Busbar 750/5 A 2.5 VA cl.0.5
METSECT5GD080	IEC CT Split Core Busbar 800/5 A 2.5 VA cl.0.5
METSECT5GD100	IEC CT Split Core Busbar 1000/5 A 5 VA cl.0.5
Frame 9	
METSECT5GG025	IEC CT Split Core Busbar 250/5 A 1.5 VA cl.1
METSECT5GG030	IEC CT Split Core Busbar 300/5 A 2.5 VA cl.1
METSECT5GG040	IEC CT Split Core Busbar 400/5 A 2.5 VA cl.1
METSECT5GG050	IEC CT Split Core Busbar 500/5 A 2.5 VA cl.0.5
METSECT5GG060	IEC CT Split Core Busbar 600/5 A 2.5 VA cl.0.5
METSECT5GG075	IEC CT Split Core Busbar 750/5 A 2.5 VA cl.0.5
METSECT5GG080	IEC CT Split Core Busbar 800/5 A 2.5 VA cl.0.5
METSECT5GG100	IEC CT Split Core Busbar 1000/5 A 5 VA cl.0.5
METSECT5GG120	IEC CT Split Core Busbar 1200/5 A 5 VA cl.0.5
METSECT5GG125	IEC CT Split Core Busbar 1250/5 A 7.5 VA cl.0.5
METSECT5GG150	IEC CT Split Core Busbar 1500/5 A 7.5 VA cl.0.5
Frame 10	
METSECT5GJ100	IEC CT Split Core Busbar 1000/5 A 10 VA cl.0.5
METSECT5GJ120	IEC CT Split Core Busbar 1200/5 A 10 VA cl.0.5
METSECT5GJ150	IEC CT Split Core Busbar 1500/5 A 10 VA cl.0.5
METSECT5GJ160	IEC CT Split Core Busbar 1600/5 A 10 VA cl.0.5
METSECT5GJ200	IEC CT Split Core Busbar 2000/5 A 10 VA cl.0.5
METSECT5GJ250	IEC CT Split Core Busbar 2500/5 A 10 VA cl.0.5
METSECT5GJ300	IEC CT Split Core Busbar 3000/5 A 15 VA cl.0.5
METSECT5GJ400	IEC CT Split Core Busbar 4000/5 A 15 VA cl.0.5

Commercial reference number	Description
Current Sensors	
Solid Core CT LVCTs	
METSECTLV10005U	Solid core LVCT, 50 A primary, 0.333 V output, 1.8m (6 ft.) lead length
METSECTLV10010U	Solid core LVCT, 100 A primary, 0.333 V output, 1.8m (6 ft.) lead length
METSECTLV25020U	Solid core LVCT, 200 A primary, 0.333 V output, 1.8m (6 ft.) lead length
METSECTLV31040U	Solid core LVCT, 400 A primary, 0.333 V output, 1.8m (6 ft.) lead length
Split Core CT (bus bar)	
METSECTLV2010U	Split core CT, .3V, 100A UL2808
METSECTLV2020U	Split core CT, .3V, 200A UL2808
METSECTLV2030U	Split core CT, .3V, 300A UL2808
METSECTLV2040U	Split core CT, .3V, 400A UL2808
METSECTLV3060U	Split core CT, .3V, 600A UL2808
METSECTLV3080U	Split core CT, .3V, 800A UL2808
METSECTLV4080U	Split core CT, .3V, 800A UL2808
METSECTLV4100U	Split core CT, .3V, 1000A UL2808
METSECTLV4120U	Split core CT, .3V, 1200A UL2808
METSECTLV4160U	Split core CT, .3V, 1600A UL2808
METSECTLV4200U	Split core CT, .3V, 2000A UL2808
METSECTLV4240U	Split core CT, .3V, 2400A UL2808
Split Core CT (cable)	
METSECTLV1005U	Split core CT, 5A, 2400A UL2808
METSECTLV1010U	Split core CT, 5A, 600A UL2808
METSECTLV1020U	Split core CT LargeSize 800A 5A UL2808
Rogowski CTs	
METSECTR25500	Rogowski CT, 250 mm core length, 80 mm dia.
METSECTR46500	Rogowski CT, 400 mm core length, 146 mm dia.
METSECTR60500	Rogowski CT, 600 mm core length, 191 mm dia.
METSECTR90500	Rogowski CT, 900 mm core length, 287 mm dia.
Rogowski Coil Current Transducer	
METSECTR25500U	CT Rogowski 250 mm (9.8 in) coil, 1000 A, Lead length 2.4 m (8 ft)
METSECTR30500U	CT Rogowski 300 mm (11.8 in) coil, 2000 A, Lead length 2.4 m (8 ft)
METSECTR46500U	CT Rogowski 460 mm (18.1 in) coil 5000 A, Lead length 2.4 m (8 ft)
METSECTR60500U	CT Rogowski 600 mm (23.6 in) coil 5000 A, Lead length 2.4 m (8 ft)
METSECTR90500U	CT Rogowski 900 mm (35.4 in) coil 5000 A, Lead length 2.4 m (8 ft)
Basic Energy Metering	
iEM2xxx	
A9MEM2000T	iEM2000T basic energy meter, no display
A9MEM2000	iEM2000 basic energy meter
A9MEM2010	iEM2010 energy meter, kWh pulse output
A9MEM2050	iEM2050 modular single phase power meter 230 V - 45 A with Modbus
A9MEM2055	iEM2055 modular single phase power meter 230 V - 45 A with Modbus, MID
A9MEM2435	iEM2435 power and energy meter, Class 1, 230 V, 100 A, M-Bus, MID, 2 tariffs, 2 pulse outputs, 4 quadrants, LCD display
A9MEM2455	iEM2455 power and energy meter, Class 1, 230 V, 100 A, RS-485, MID, 2 tariffs, 2 pulse outputs, 4 quadrants, LCD display
EM3570	
METSEEM3570	DIN Ethernet power meter, LVCT input with external Power Supply module
METSEEM3570A	DIN Ethernet power meter, Rogowski coil input with external Power Supply module

PowerLogic™ Commercial Reference Numbers

Commercial reference number	Description
METSEEM3570X	DIN Ethernet power meter, LVCT input without external Power Supply module
METSEEM3570AX	DIN Ethernet power meter, Rogowski coil input without external Power Supply module
METSEEM3570PS	24V DC Power Supply Module for DIN Ethernet meter 600V AC input
METSEEM3570ENC	NEMA enclosure accessory for Din Ethernet meter METSEEM35x Schneider brand
EM3000	
METSEEM3122	EM3122 45A CI 1 Energy Meter RS-485
METSEEM3212	EM3212 63A CI 1 Energy Meter
METSEEM3224	EM3224 63A CI 1 MID Energy Meter RS-485
METSEEM3322	EM3322 100A CI 1 Energy Meter RS-485
METSEEM3412	EM3412 125A CI 1 Energy Meter
METSEEM3424	EM3424 125A CI 1 MID Energy Meter RS-485
METSEEM3712	EM3712 CT Op CI0.5S/CI1 Energy Meter
METSEEM3724	EM3724 CT Op CI0.5S/CI1 MID Energy Meter
iEM3000	
A9MEM3100	iEM3100 basic energy meter
A9MEM3110	iEM3110 energy meter with pulse output
A9MEM3115	iEM3115 multi-tariff energy meter
A9MEM3135	iEM3135 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port
A9MEM3150	iEM3150 energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3155	iEM3155 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3165	iEM3165 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
A9MEM3175	iEM3175 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port
A9MEM3200	iEM3200 basic energy meter
A9MEM3210	iEM3210 energy meter with pulse output
A9MEM3215	iEM3215 multi-tariff energy meter
A9MEM3235	iEM3235 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port
A9MEM3250	iEM3250 energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3255	iEM3255 advanced multi-tariff energy meter & electrical parameter plus Modbus RS485 comm port
A9MEM3265	iEM3265 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
A9MEM3275	iEM3275 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port
A9MEM3300	iEM3300 basic energy meter
A9MEM3310	iEM3310 energy meter with pulse output
A9MEM3335	iEM3335 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port
A9MEM3350	iEM3350 energy meter & electrical parameter plus Modbus RS-485 comm port

Commercial reference number	Description
A9MEM3355	iEM3355 advanced multi-tariff energy meter & electrical parameter plus Modbus RS485 comm port
A9MEM3365	iEM3365 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
A9MEM3375	iEM3375 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port
A9MEM3455	iEM3455 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3465	iEM3465 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
A9MEM3555	iEM3555 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3565	iEM3565 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
LVCTs	
LVCT00050S	CT, split-core, Size 0, 50 A to 0.333 V
LVCT00101S	CT, split-core, Size 1, 100 A to 0.333 V
LVCT00201S	CT, split-core, Size 1, 200 A to 0.333 V
LVCT00102S	CT, split-core, Size 2, 100 A to 0.333 V
LVCT00202S	CT, split-core, Size 2, 200 A to 0.333 V
LVCT00302S	CT, split-core, Size 2, 300 A to 0.333 V
LVCT00403S	CT, split-core, Size 3, 400 A to 0.333 V
LVCT00603S	CT, split-core, Size 3, 600 A to 0.333 V
LVCT00803S	CT, split-core, Size 3, 800 A to 0.333 V
LVCT00804S	CT, split-core, Size 4, 800 A to 0.333 V
LVCT01004S	CT, split-core, Size 4, 1000 A to 0.333 V
LVCT01204S	CT, split-core, Size 4, 1200 A to 0.333 V
LVCT01604S	CT, split-core, Size 4, 1600 A to 0.333 V
LVCT02004S	CT, split-core, Size 4, 2000 A to 0.333 V
LVCT02404S	CT, split-core, Size 4, 2400 A to 0.333 V
PM3000	
METSEPM3200	PM3200 basic power meter
METSEPM3210	PM3210 power meter with pulse output
METSEPM3250	PM3250 power meter with RS485 port
METSEPM3255	PM3255 power meter plus 2 digital inputs, 2 digital outputs with RS-485 port
PowerTag Energy	
A9MEM1520	PowerTag Energy M63 1P+W
A9MEM1521	PowerTag Energy M63 1P+N Top
A9MEM1522	PowerTag Energy M63 1P+N Bottom
A9MEM1540	PowerTag Energy M63 3P
A9MEM1541	PowerTag Energy M63 3P+N Top
A9MEM1542	PowerTag Energy M63 3P+N Bottom
A9MEM1543	PowerTag Energy M63 3P 230 V LL
A9MEM1560	PowerTag Energy F63 1P+N
A9MEM1561	PowerTag Energy P63 1P+N Top
A9MEM1562	PowerTag Energy P63 1P+N Bottom
A9MEM1563	PowerTag Energy P63 1P+N B RCBO
A9MEM1564	PowerTag Energy F63 1P+N 110 V
A9MEM1570	PowerTag Energy F63 3P+N
A9MEM1571	PowerTag Energy P63 3P+N Top
A9MEM1572	PowerTag Energy P63 3P+N Bottom
A9MEM1573	PowerTag Energy F63 3P
A9MEM1574	PowerTag Energy F63 3P+N 127/220 V
A9MEM1580	PowerTag Energy F160 3P / 3P+N
A9MEM1590	PowerTag Energy R200 3P / 3P+N
A9MEM1591	PowerTag Energy R600 3P / 3P+N
A9MEM1592	PowerTag Energy R1000 3P / 3P+N
A9MEM1593	PowerTag Energy R2000 3P / 3P+N
LV434020	PowerTag Energy M250 3P
LV434021	PowerTag Energy M250 3P+N
LV434022	PowerTag Energy M630 3P
LV434023	PowerTag Energy M630 3P+N
R9M20	PowerTag Energy R9 M63 1P+W
R9M21	PowerTag Energy R9 M63 1P+N Top

PowerLogic™ Commercial Reference Numbers

Commercial reference number	Description
R9M22	PowerTag Energy R9 M63 1P+N Bottom
R9M40	PowerTag Energy R9 M63 3P
R9M41	PowerTag Energy R9 M63 3P+N Top
R9M42	PowerTag Energy R9 M63 3P+N Bottom
R9M43	PowerTag Energy R9 M63 3P 230 V LL
R9M60	PowerTag Energy R9 F63 1P+N
R9M70	PowerTag Energy R9 F63 3P+N
Wireless Products	
PowerTag Control	
A9XMC2D3	PowerTag C 2DI 230V digital input module
HeatTag	
SMT10020	HeatTag smart sensor cable overheating
Basic Multi-Function Metering	
PM5000	
METSEPM5100	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 15th harmonic, 1DO
METSEPM5110	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 15th harmonic, 1DO, RS-485
METSEPM5111	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 15th harmonic, 1DO, RS-485, MID
METSEPM5310	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO, RS-485
METSEPM5310R	Power Meter, 600V AC L-L/ RJ45 LVCT input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO, RS-485
METSEPM5320	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO, Ethernet
METSEPM5320R	Power Meter, 600V AC L-L/ RJ45 LVCT input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO, Ethernet
METSEPM5330	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO/2-Relay, RS-485
METSEPM5331	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO/2-Relay, RS-485, MID
METSEPM5340	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO/2-Relay, Ethernet
METSEPM5341	Power Meter, 600V AC L-L/ 5A or 1A input, 415V AC L-L or 250V DC control power, CI 0.5S, 31st harmonic, 256 kB, 2DI/2DO/2-Relay, Ethernet, MID
METSEPM5560	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet
METSEPM5561	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, MID
METSEPM5562	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, RMI CAN approved, Hardware lockable
METSEPM5562MC	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, RMI CAN approved, Factory sealed
METSEPM5563	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, DIN mount, No display
METSEPM5563RD	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, DIN mount, Remote display
METSEPM5570	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2AI/2-DO, RS-485, Ethernet
METSEPM5580	Power Meter, 690V AC L-L/ 5A or 1A input, 24 to 64V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet
METSEPM5650	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 4DI/2-DO, RS-485, Ethernet, Wave Form Capture and Sag/swell

Commercial reference number	Description
METSEPM5660	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2-DO, RS-485, Ethernet, Residual Current Monitor
METSEPM5661	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2-DO, RS-485, Ethernet, Residual Current Monitor, MID
METSEPM5760	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2-DO, RS-485, Ethernet, Wave Form Capture and Sag/swell, Residual current monitor
METSEPM5761	Power Meter, 690V AC L-L/ 5A or 1A input, 480V AC L-L or 250V DC control power, CI 0.2S, 63rd harmonic, 1.1 MB, 2DI/2-DO, RS-485, Ethernet, Wave Form Capture and Sag/swell, Residual current monitor, MID
Residual Current Monitoring Toroids (Vigirex) - Closed Toroids, A Type	
50437	TA30 - closed toroid A type, for RCM enabled power meters, 30 mm inner diameter, rated current 65 Amps, 1000 turns
50438	PA50 - closed toroid A type, for RCM enabled power meters, 50 mm inner diameter, rated current 85 Amps, 1000 turns
50439	IA80 - closed toroid A type, for RCM enabled power meters, 80 mm inner diameter, rated current 160 Amps, 1000 turns
50440	MA120 - closed toroid A type, for RCM enabled power meters, 120 mm inner diameter, rated current 250 Amps, 1000 turns
50441	SA200 - closed toroid A type, for RCM enabled power meters, 200 mm inner diameter, rated current 400 Amps, 1000 turns
50442	GA300 - closed toroid A type, for RCM enabled power meters, 300 mm inner diameter, rated current 630 Amps, 1000 turns
Accessories for Closed Toroids	
56055	Magnetic ring/ Iron screen accessory for TA30 toroid sensor
56056	Magnetic ring/ Iron screen accessory for PA50 toroid sensor
56057	Magnetic ring/ Iron screen accessory for IA80 toroid sensor
56058	Magnetic ring/ Iron screen accessory for MA120 toroid sensor
Residual Current Monitoring Toroids (Vigirex) - Split Toroids, OA Type	
50420	TOA80 - split toroid OA type, 80 mm inner diameter, rated current 160 Amps, 1000 turns
50421	TOA120 - split toroid OA type, 120 mm inner diameter, rated current 250 Amps, 1000 turns
56053	L1 type - rectangular sensor, width 280 x height 115 mm, rated current 1600 Amps, 1000 turns
56054	L2 type - rectangular sensor, width 470 x height 160 mm, rated current 3200 Amps, 1000 turns
0.333V (1/3 Volts), 3-in-1 CTs with RJ45 connectors for PM53x0R LVCT enabled power meter	
METSECTV25006	LVCT Solid core 3 in 1 with RJ45 cable, 25 mm phase center, 60 Amps, 0.333V output
METSECTV25010	LVCT Solid core 3 in 1 with RJ45 cable, 25 mm phase center, 100 Amps, 0.333V output
METSECTV25013	LVCT Solid core 3 in 1 with RJ45 cable, 25 mm phase center, 125 Amps, 0.333V output
METSECTV25016	LVCT Solid core 3 in 1 with RJ45 cable, 25 mm phase center, 160 Amps, 0.333V output
METSECTV35006	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 60 Amps, 0.333V output
METSECTV35010	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 100 Amps, 0.333V output
METSECTV35012	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 120 Amps, 0.333V output
METSECTV35013	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 125 Amps, 0.333V output
METSECTV35015	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 150 Amps, 0.333V output
METSECTV35016	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 160 Amps, 0.333V output
METSECTV35020	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 200 Amps, 0.333V output
METSECTV35025	LVCT Solid core 3 in 1 with RJ45 cable, 35 mm phase center, 250 Amps, 0.333V output
METSECTV45025	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 250 Amps, 0.333V output
METSECTV45030	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 300 Amps, 0.333V output

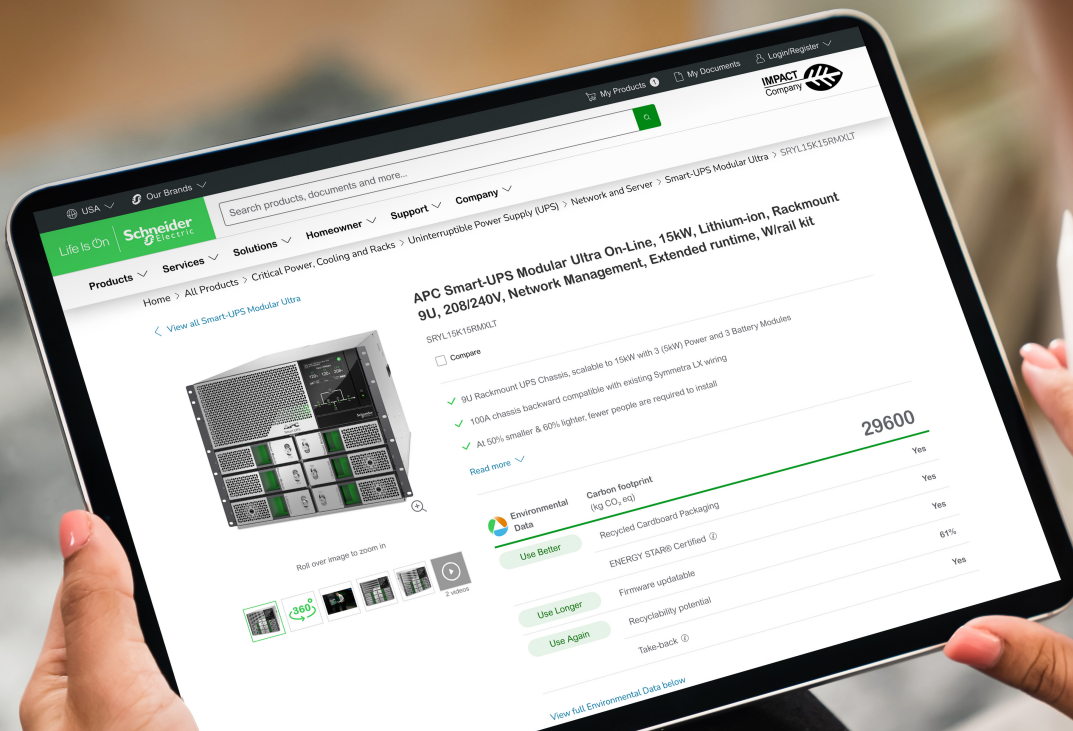
PowerLogic™ Commercial Reference Numbers

Commercial reference number	Description
METSECTV45040	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 400 Amps, 0.333V output
METSECTV45050	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 500 Amps, 0.333V output
METSECTV45060	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 600 Amps, 0.333V output
METSECTV45063	LVCT Solid core 3 in 1 with RJ45 cable, 45 mm phase center, 630 Amps, 0.333V output
METSECTV29006	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 60 Amps, 0.333V output
METSECTV29010	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 100 Amps, 0.333V output
METSECTV29012	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 120 Amps, 0.333V output
METSECTV29013	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 125 Amps, 0.333V output
METSECTV29015	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 150 Amps, 0.333V output
METSECTV29016	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 160 Amps, 0.333V output
METSECTV29020	LVCT Solid core 3 in 1 with RJ45 cable, 29 mm phase center, 200 Amps, 0.333V output
METSECTV70080	LVCT Solid core 3 in 1 with RJ45 cable, 70 mm phase center, 800 Amps, 0.333V output
METSECTV70100	LVCT Solid core 3 in 1 with RJ45 cable, 70 mm phase center, 1000 Amps, 0.333V output
METSECTV70125	LVCT Solid core 3 in 1 with RJ45 cable, 70 mm phase center, 1250 Amps, 0.333V output
Cable	
METSEPM5CAB03	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 0.3 meter cable length
METSEPM5CAB1	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 1.0 meter cable length
METSEPM5CAB10	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 10 meter cable length
METSEPM5CAB3	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 3 meter cable length
METSEPM5CAB4	RJ25 cable assembly for interfacing PM5563 meter and PM5RD remote display with 4 meter cable length
Other related products	
METSEPM5RD	Remote display unit for PM5563 power meter supplied with mounting bracket, gasket, anti-rotation pin and RJ25 cable METSEPM5CABx
METSEPM51HK	Hardware kit for PM51xx comprises 2 retainer clips and spare connectors for - Voltage in, Control power in, Digital IO & RS-485
METSEPM53HK	Hardware kit for PM51xx comprises 2 retainer clips and spare connectors for - Voltage in, Control power in, Digital IO, Relay & RS-485
METSEPM51_3RSK	Revenue sealing kit for PM51XX & PM53XX
METSEPM55RSK	Revenue sealing kit for PM55XX
METSEPM55HK	Hardware kit for PM55xx
METSEPM5CAB3	Remote Display cable
PM5350	
METSEPM5350	RS-485 Modbus, THD, 4DI, 2Relay
METSEPM5350IB	RS-485, 4DI/2Relay, Multi-level alarm, UL480V, 4DI/2Relay
METSEPM5350PB	RS-485, 4DI/2Relay, Multi-level alarm, UL300V, 4DI/2Relay
METSEPM5350P	RS-485 Modbus, THD, 31st Individual harmonics, Multi-tariff, 4DI/2Relay
EcoStruxure™ Panel Server	
Panel Server Entry	
PAS400	Panel Server Entry 110..277 V AC/DC
Panel Server Universal	
PAS600L	Panel Server Universal with 24 V DC power supply
PAS600LWD	Wired by Design Panel Server Universal with 24 Vdc power
PAS600PWD	Wired by Design Panel Server Universal with PoE power supply
PAS600T	Panel Server Universal with 100-240 V AC/DC power supply

Commercial reference number	Description
PAS600	Panel Server Universal with 100-277 V AC/DC power supply
Panel Server Advanced	
PAS800L	Panel Server Advanced with 24 V DC power supply
PAS800P	Panel Server Advanced with PoE power supply
PAS800	Panel Server Advanced with 100-277 V AC/DC power supply
Panel Server I/O Smartlink	
A9C15924	Low-level control and indication auxiliary for iCT contactors
A9C15424	Low-level control and indication auxiliary for iTL impulse relays
A9A26897 A9A26898	Low-level indication auxiliary for iC60, iID, ARA, RCA, iSW-NA
A9N26899	Low-level indication auxiliary for C60, C120, DPN, RCCB/iD, C60H-DC
<p>For any enclosure or product configuration not listed, please see your Schneider Electric Representative for complete ordering information.</p>	



Environmental Data Program

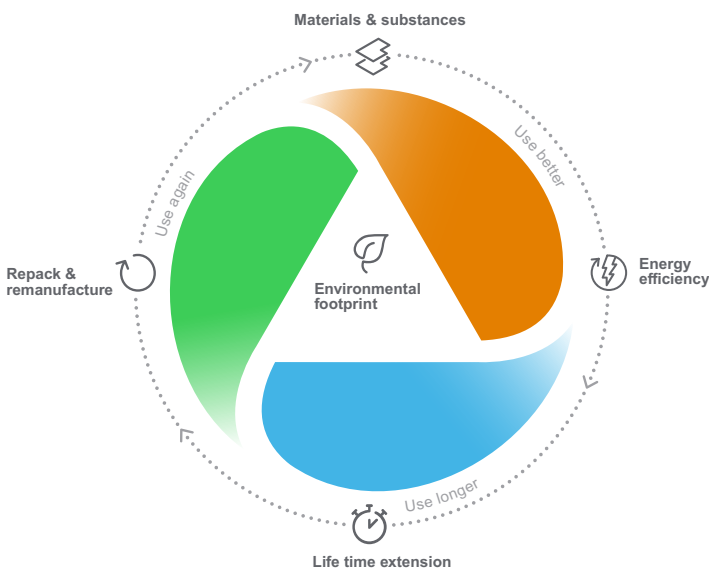


Next-level transparency for better-informed product choices

The Environmental Data Program is a framework for how we measure, categorize, and compare the environmental attributes and footprint of our products.

Using a rigorous, fact-based methodology, the program provides environmental data from across the product lifecycle.

Five data categories across the product lifecycle



Use Better: How sustainable a product is, including environmental footprint, materials and substances, packaging, and energy efficiency.

Use Longer: How a product's life time can be effectively extended in terms of repairability and updatability.

Use Again: How a product can be reused, from dismantling and remanufacturing to recyclability and manufacturer take back.

With this transparent, verified data, customers and partners are empowered to make conscious environmental choices and accurately evaluate and report on sustainability performance.

All our hardware offers have an associated environmental data available on se.com product pages.



Learn more about the
Environmental Data Program



www.se.com

Schneider Electric Industries SAS
35, Rue Joseph Monier
CS 30323
92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 928 298 512 €
www.se.com

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As standards, specifications and designs develop from time to time, please ask for confirmation of the information given in this document.

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