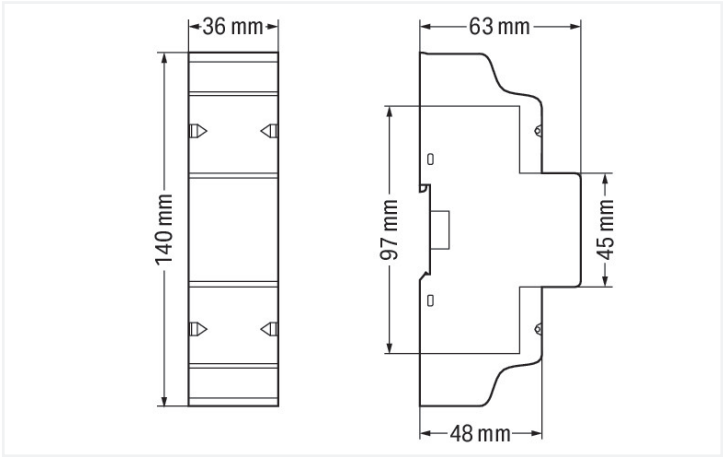
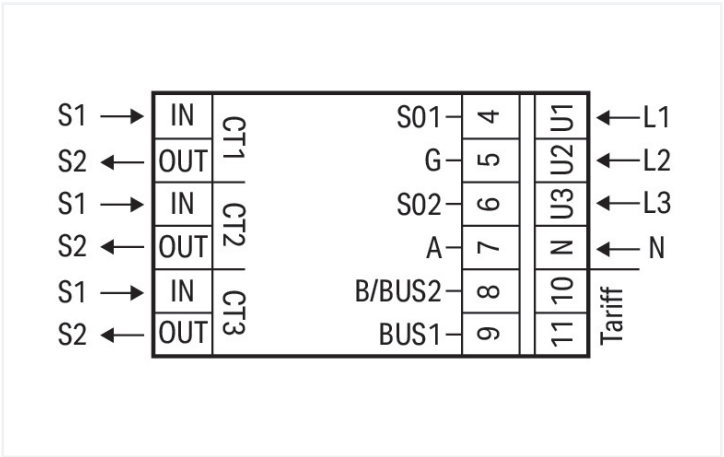




Short description:
Crucial for trimming costs, comprehensive energy measurement is necessary to optimize energy consumption. WAGO's portfolio now has new energy meters that simplify this task while offering several key advantages. They use push-in connection technology with a lever, making them connect quickly and easily. Versions for current transformers are even slimmer at only 35 mm. These slim profiles save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency, as well as current, voltage and power for all phases. And the user can conveniently scan all of these energy characteristics at a glance on a large, illuminated display.

Features:

- Push-in CAGE CLAMP® and lever save time at every stage
- Real space savings: 35 mm wide (2PUCT)
- Measurement of supply and purchase
- Energy measurement in four tariffs
- The communications pro: M-Bus/Modbus® interface and two S0 pulse outputs
- Full transparency at a glance: display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: touch-sensitive controls and configuration app via *Bluetooth*®

Technical data			
Configuration		Input	
Configuration options	Touch-sensitive controls Configuration app via <i>Bluetooth</i> ®	Input signal type	Voltage Current
		Network configuration	Two-wire, three-wire and four-wire networks
		Nominal input voltage $U_{i\text{nom}}$	3 x AC 230 ... 400 V
		Input voltage range	±20 %
		Reference current I_{ref}	1 A
		Input current I_i	≤ 5 A



Input	
Current transformer (secondary)	1 A 5 A
Current transformer ratio	1:1 ... 9999 : 1 / 5:5 ... 9995 : 5
Frequency range	45 ... 60 Hz

Signaling and communication	
Communication	Bluetooth® M-Bus Modbus®
Configuration options	Configuration app via Bluetooth® Touch-sensitive controls

Measurement error	
Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years

Safety and protection		
Dielectric strength	4 kV; 1 min	
Impulse withstand voltage (1.2/50 µs)	6 kV	
Pollution degree	2	
Protection type	IP51 / IP20; IP51 (front side); IP20 (connection)	
Protection class	II	

Connection data	
Connection type 1	Voltage/current
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2604 Series
Actuation type	Lever
Solid conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm²
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches
Connection type 2	Communication/rate control input
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2604 Series
Actuation type 2	Lever
Solid conductor 2	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor 2	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 ... 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule 2	0.25 ... 2.5 mm²
Strip length 2	9 ... 11 mm / 0.35 ... 0.43 inches

Communication	
Communication	Modbus® Bluetooth® M-Bus
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	230 VAC
Indicators	LCD with backlight

Signal processing	
Measured variables (calculated)	Active and reactive energy in supply and reference direction
Measurement type (load profile)	No

Supply	
Power supply type	Via measurement circuit
Power consumption P _{max.} (phase; active power)	2 W
Power consumption P _{max.} (phase; apparent power)	10 VA



Physical data		
Width		36 mm / 1.417 inches
Height		97 mm / 3.82 inches
Depth		63 mm / 2.48 inches
Note (dimensions)		Height with cover: 140 mm

Mechanical data		
Mounting type		DIN-35 rail

Material data		
Housing material		PC 940A
Fire load		0 MJ
Weight		165 g

Environmental requirements		
Ambient temperature (operation)		-40 ... +70 °C
Relative humidity		≤ 75% (during storage ≤ 95 %)

Standards and specifications		
Conformity marking		CE
Standards/specifications		EN 50470-1/3 MID-compliant

Commercial data		
ETIM 8.0		EC002048
ETIM 7.0		EC002048
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		CN
GTIN		4066966177299
Customs tariff number		90283019000

Downloads		
Environmental Product Compliance		
Compliance Search		
Environmental Product Compliance 879-3040		

Documentation		
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Manual			
Product Manual WAGO Energy Meters (MID)	V 1.6 26.09.2022	pdf 3668.98 KB	↓

Bid Text		
879-3040	xml 6.84 KB	↓
879-3040	docx 29.50 KB	↓
ausschreiben.de 879-3040		↓

Instruction Leaflet			
Energy consumption meter	V 1.15 16.02.2022	pdf 934.38 KB	↓

Application Notes

Application Note e!COCKPIT			
e!COCKPIT Application Note WagoAppPower-Measurement	2021-11-08 06.12.2021	pdf 930.71 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 879-3040	↓

CAE data	
EPLAN Data Portal 879-3040	↓
ZUKEN Portal 879-3040	↓

Libraries

e!COCKPIT libraries			
e!COCKPIT Library Description WagoAppPowerMeasurement	1.7.4.0 25.05.2021	pdf 1369.41 KB	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Current transformer

1.1.1.1 Plug-in current transformer



Item No.: 855-305/300-509
Plug-in current transformer; Primary rated current 300 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes

Item No.: 855-405/300-509
Plug-in current transformer; Primary rated current 300 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes

Item No.: 855-305/750-509
Plug-in current transformer; Primary rated current 750 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes

Item No.: 855-405/750-509
Plug-in current transformer; Primary rated current 750 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes



1.1.1.1 Plug-in current transformer



Item No.: 855-305/100-209
Plug-in current transformer; Primary rated current: 100 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-305/150-209
Plug-in current transformer; Primary rated current: 150 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-405/200-209
Plug-in current transformer; Primary rated current: 200 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-305/200-509
Plug-in current transformer; Primary rated current: 200 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-405/250-209
Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-305/250-509
Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-305/400-509
Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-405/400-509
Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-305/500-509
Plug-in current transformer; Primary rated current: 500 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-405/500-509
Plug-in current transformer; Primary rated current: 500 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-305/600-509
Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes



Item No.: 855-405/600-509
Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes