



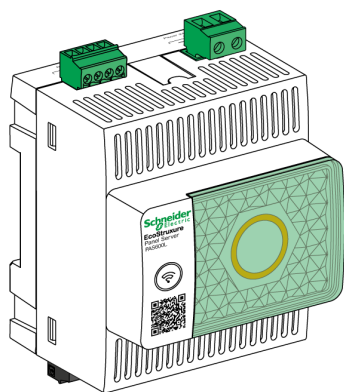
EcoStruxure Panel Server

Firmware Release Notes

Wireless Concentrator and Modbus Gateway, Datalogger and Energy Server

EcoStruxure offers IoT-enabled architecture and platform.

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11/2021



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Introduction

EcoStruxure Master Range

EcoStruxure is Schneider Electric's IoT-enabled, plug-and-play, open, interoperable architecture and platform, in Homes, Buildings, Data Centers, Infrastructure and Industries. Innovation at Every Level from Connected Products to Edge Control, and Apps, Analytics and Services.

EcoStruxure Panel Server Gateway

EcoStruxure Panel Server is a high performance, all-in-one gateway used to retrieve data from IEEE 802.15.4 and Modbus devices.

EcoStruxure Panel Server is a data concentrator for the following wireless devices:

- PowerTag Energy and PowerLogic Tag sensors
- Acti9 Active
- Environmental sensors
- HeatTag sensors
- Wireless indication auxiliaries for ComPacT NSX and ComPacT NSXm circuit breakers
- PowerTag Control modules (available in 2022)

To optimize energy and operation management solution, the EcoStruxure Panel Server provides easy and fast connection to edge control software, Building Management Systems, and cloud applications.

The 3 models of EcoStruxure Panel Server are Advanced¹, Universal, and Entry¹.

Firmware Release History

Date	EcoStruxure Panel Server Firmware version	Availability
October 2021	001.002.000	Release for manufacturing
April 2021	001.001.000	Obsolete

Firmware Update Policy

Firmware update is recommended to benefit from the latest features and potential bug fixes.

Firmware Update with EcoStruxure Power Commission Software

Use the latest version of EcoStruxure Power Commission software to update the EcoStruxure Panel Server with the latest firmware version available.

The latest version of EcoStruxure Power Commission software is available at www.se.com.

For more information about the use of EcoStruxure Power Commission software, refer to *EcoStruxure Power Commission Online Help*.

¹. Available in 2022

Firmware Versions

Firmware Version 001.002.000

New Features

- Addition of supported devices:
 - HeatTag sensors
 - Wireless indication auxiliaries for ComPacT NSX and ComPacT NSXm circuit breakers
 - PowerLogic Tag 2P energy sensors
 - Wireless CO₂ sensors
 - Wireless temperature and humidity sensors
 - PowerTag A (EwSenseTemp) sensor
 - PowerTag Ambient wireless temperature sensors
- Addition of separated network topology
- Addition of Modbus TCP/IP client protocol
- Addition of digital inputs to monitor the state of external contacts or as pulse counter
- Addition of EcoStruxure Panel Server webpages for monitoring
- Enhancement of typical response time to Modbus/TCP IP request for a wireless IEEE 802.15.4 device
- Enhancement of maximum response time to Modbus/TCP IP request for a wireless IEEE 802.15.4 device

Known Issues

- The separated mode is configured to segregate downstream Modbus TCP/IP devices connected on **ETH1** port from upstream communication systems connected on **ETH2** port. With the current firmware version, it is only possible to access the downstream Modbus TCP/IP devices data from the EcoStruxure Panel Server embedded webpages. A monitoring software connected on **ETH1** port using Modbus TCP/IP will not be able to access the Modbus TCP/IP devices connected on **ETH2** port. For such applications, use only the switched mode.
- When an active alarm is present (as reported in the Modbus register) for a PowerTag Energy M250/M630 for ComPacT NSX 3-pole circuit breaker, a PowerTag Energy F160, a PowerTag Rope, or a PowerLogic Tag Rope (see commercial references in the table below), the alarm is still active although the value of the **ENVT** (External Neutral Voltage Tap) setting is changed by using the EcoStruxure Panel Server webpages or EcoStruxure Power Commission software.

To work around this issue, restart the EcoStruxure Panel Server Universal (see DOCA0172EN *EcoStruxure Panel Server - User Guide* for detailed procedure).

The alarm for phase-to-neutral voltage protection is one of the following:

- 80% Undervoltage on phase-to-neutral
- 120% Overvoltage on phase-to-neutral

The following table lists the devices concerned by the issue:

Devices	Commercial reference
PowerTag M250 3P 250A	LV434020
PowerTag M250 3P+N 250A	LV434021
PowerTag M630 3P 630A	LV434022

Devices	Commercial reference
PowerTag M630 3P+N 630A	LV434023
PowerTag F160 3P/3P+N	A9MEM1580
PowerTag Rope 200 A 3P/3P+N	A9MEM1590
PowerTag Rope 600 A 3P/3P+N	A9MEM1591
PowerTag Rope 1000 A 3P/3P+N	A9MEM1592
PowerTag Rope 2000 A 3P/3P+N	A9MEM1593
PowerLogic Tag Rope 120A 3P	PLTR1203P
PowerLogic Tag Rope 600A 3P	PLTR6003P
PowerLogic Tag Rope 1000A 3P	PLTR10003P
PowerLogic Tag Rope 2000A 3P	PLTR20003P

- When an active alarm is present (as reported in the Modbus register) for a PowerTag Energy 1P+N , a PowerLogic Tag 1 P or 2P, or an Acti9 Active iC40 or iC60, the alarm is still active although the value of the **Phase Sequence** setting is changed by using the EcoStruxure Panel Server webpages or EcoStruxure Power Commission software.

To work around this issue, restart the EcoStruxure Panel Server Universal (see DOCA0172EN *EcoStruxure Panel Server - User Guide* for detailed procedure).

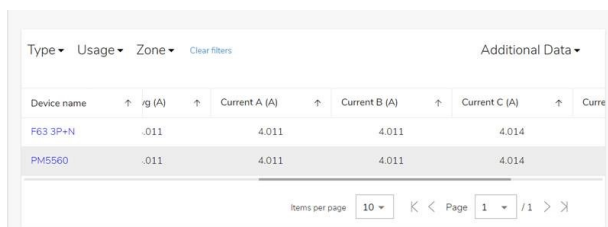
The alarm about phase sequence is one of the following:

- 80% Undervoltage
- 120% Overvoltage
- Overcurrent over 45%, 50%, or 80% of nominal current
- Load current is 0 A

The following table lists the devices concerned by the issue:

Devices	Commercial reference
PowerTag A9 P63 1P+N Top	A9MEM1560
PowerTag A9 P63 1P+N Top	A9MEM1561
PowerTag A9 P63 1P+N Bottom	A9MEM1562
PowerTag A9 P63 1P+N Bottom RCBO	A9MEM1563
PowerTag A9 F63 1P+N 110V	A9MEM1564
PowerLogic Tag QO 10-30A 1P+N	PLTQO301P
PowerLogic Tag QO 35-60A 1P+N	PLTQO601P
PowerLogic Tag E-Frame 10-60A 1P+N	PLTE601P
PowerLogic Tag QO 10-30A 2P	PLTQO302P
PowerLogic Tag QO 35-60A 2P	PLTQO602P
PowerLogic Tag E-Frame 10-60A 2P	PLTE602P
Acti9 Active iC40 and iC60	A9TAA●●●●, A9TAB●●●●, A9TDEC●●●●, A9TDFC●●●●, A9TDFD●●●●, A9TPDD●●●●, A9TPED●●●●, A9TYAE●●●●, A9TYBE●●●●

- On systems with both Modbus devices and wireless devices, the table view of measurements may display in some rare cases the same measurements value for the wireless devices as for the Modbus device as shown below:



This issue is only within this page and does not affect the measurements reported on the Modbus register to the upstream system nor the measurements reported in the single device webpage.

This issue does not affect systems with only wireless devices or only Modbus devices.

Follow this procedure to resolve the issue:

- For systems with more wireless devices than Modbus devices (for example, 10 wireless devices and 5 Modbus devices):
 1. Remove all devices from the project.
 2. Add all Modbus devices.
 3. Add all wireless devices.
 4. Remove the wireless devices only again.
 5. Add all the wireless devices again.
- For systems with more Modbus devices than wireless devices (for example, 10 Modbus devices and 5 wireless devices):
 1. Remove all devices from the project.
 2. Add all wireless devices.
 3. Add all Modbus devices.
 4. Remove the Modbus devices only again.
 5. Add all the Modbus devices.
- For systems with same number of Modbus devices as wireless devices (for example, 5 Modbus devices and 5 wireless devices):
 1. Remove all devices from the project.
 2. Add all wireless devices.
 3. Add all Modbus devices.
 4. Remove the Modbus devices only again.
 5. Add all the Modbus devices.

Features

The following table presents the availability of features on EcoStruxure Panel Server Universal.

● Available

● Not available

Features		Availability
Functionality	Separated network topology	●
	Switched network topology	●
	Connection to Edge Control (EcoStruxure Power Monitoring Expert, EcoStruxure Power Operation, EcoStruxure Building Operation, any Building Management System, or third-party monitoring or supervision system)	●
	Embedded webpages for diagnostic	●
	Embedded webpages for monitoring all the supported devices (see commercial references in chapter Supported Devices, page 12).	●
Wi-Fi	2.4 GHz	●
	5 GHz	●
	Wi-Fi external antenna	●
IEEE 802.15.4 communication	Maximum number of wireless devices: <ul style="list-style-type: none"> • 30 PowerTag Energy sensors, PowerLogic Tag energy sensors, Acti9 Active, wireless indication auxiliaries for ComPacT NSX and ComPacT NSXm circuit breakers, wireless CO₂ sensors, wireless temperature and humidity sensors, PowerTag A, PowerTag Ambient, and PowerLogic HeatTag sensors with a maximum of: <ul style="list-style-type: none"> ◦ 20 PowerTag or PowerLogic Tag energy sensors, or Acti9 Active ◦ 3 PowerLogic HeatTag ◦ 6 wireless indication auxiliaries for ComPacT NSX and ComPacT NSXm circuit breakers • or 65 environmental sensors (Easergy TH110/CL110) 	●
Digital inputs		●
Configuration	EcoStruxure Power Commission software	●
	Embedded webpages for configuration of Ethernet and Modbus settings	●
	User management: single user	●
Protocols	Modbus TCP/IP server	●
	Modbus TCP/IP client	●
	DHCP client	●
	DHCP server	●
	DPWS	●
	HTTPS	●

Performances and Limitations

- The typical response time to Modbus/TCP IP request for a wireless IEEE 802.15.4 device is 30 ms.

- The maximum response time to Modbus/TCP IP request for a wireless IEEE 802.15.4 device is 1 s, set-up Modbus/TCP client time-out accordingly.
- Typical EcoStruxure Panel Server latency between Modbus TCP/IP request forwarded to the Modbus RS485 network is 10 ms.
- The maximum number of Modbus/TCP concurrent connections is 32.

Firmware Version 001.001.000

Description

Firmware initial version for EcoStruxure Panel Server Universal.

Related Documents

Title of documentation	Publication date	Reference number
<i>EcoStruxure Panel Server - User Guide</i>	10/2021	DOCA0172EN

You can download these technical publications and other technical information from our website at www.se.com/ww/en/download.

Supported Devices

Wireless Devices

The following table shows the minimum EcoStruxure Panel Server firmware version and the minimum firmware version of the wireless device required to enable communication with wireless devices.

● Available

● Not available

EcoStruxure Panel Server model		Universal		Comments
EcoStruxure Panel Server firmware version		001.001.000	001.002.000	
Easergy TH110 wireless thermal sensor	EMS59440	●	●	FW v001.000.003 Modbus virtualization from PowerTag Link
Easergy CL110 wireless environmental sensor	EMS59443	●	●	FW v002.001.003 Modbus virtualization from PowerTag Link
PowerTag A9 M63 1P+W	A9MEM1520	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 M63 1P+N Top	A9MEM1521	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 M63 1P+N Bottom	A9MEM1522	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 M63 3P	A9MEM1540	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 M63 3P+N Top	A9MEM1541	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 M63 3P+N Bottom	A9MEM1542	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9MEM 1543	A9MEM1543	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag M250 3P 250A	LV434020	●	●	FW v001.003.002 Modbus virtualization from PowerTag Link
PowerTag M630 3P 630A	LV434022	●	●	FW v001.003.002 Modbus virtualization from PowerTag Link
PowerTag M250 3P+N 250A	LV434021	●	●	FW v001.003.002 Modbus virtualization from PowerTag Link
PowerTag M630 3P+N 630A	LV434023	●	●	FW v001.003.002 Modbus virtualization from PowerTag Link
PowerTag A9 P63 1P+N Top	A9MEM1560	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 P63 1P+N Top	A9MEM1561	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 P63 1P+N Bottom	A9MEM1562	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 P63 1P+N Bottom RCBO	A9MEM1563	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 F63 1P+N 110V	A9MEM1564	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 F63 3P+N	A9MEM1570	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 P63 3P+N Top	A9MEM1571	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 P63 3P+N Bottom	A9MEM1572	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag A9 F63 3P	A9MEM1573	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link

EcoStruxure Panel Server model		Universal		Comments
		001.001.000	001.002.000	
EcoStruxure Panel Server firmware version				
PowerTag A9 F63 3P+N 110/230V	A9MEM1574	●	●	FW v004.000.429 Modbus virtualization from PowerTag Link
PowerTag F160 3P/3P+N	A9MEM1580	●	●	FW v001.001.0000 Modbus virtualization from PowerTag Link
PowerTag Rope 200 A 3P/3P+N	A9MEM1590	●	●	FW v001.001.000
PowerTag Rope 600 A 3P/3P+N	A9MEM1591	●	●	FW v001.001.000
PowerTag Rope 1000 A 3P/3P+N	A9MEM1592	●	●	FW v001.001.000
PowerTag Rope 2000 A 3P/3P+N	A9MEM1593	●	●	FW v001.001.000
PowerLogic Tag QO 10-30A 1P+N	PLTQO301P	●	●	FW v004.000.429
PowerLogic Tag QO 35-60A 1P+N	PLTQO601P	●	●	FW v004.000.429
PowerLogic Tag E-Frame 10-60A 1P+N	PLTE601P	●	●	FW v004.000.429
PowerLogic Tag QO 10-30A 3P	PLTQO303P	●	●	FW v004.000.429
PowerLogic Tag QO 35-60A 3P	PLTQO603P	●	●	FW v004.000.429
PowerLogic Tag QO 10-30A 2P	PLTQO302P	●	●	FW v004.000.429
PowerLogic Tag QO 35-60A 2P	PLTQO602P	●	●	FW v004.000.429
PowerLogic Tag E-Frame 10-60A 2P	PLTE602P	●	●	FW v004.000.429
PowerLogic Tag E-Frame 10-60A 3P	PLTE603P	●	●	FW v004.000.429
PowerLogic Tag Rope 120A 3P	PLTR1203P	●	●	FW v001.001.000
PowerLogic Tag Rope 600A 3P	PLTR6003P	●	●	FW v001.001.000
PowerLogic Tag Rope 1000A 3P	PLTR10003P	●	●	FW v001.001.000
PowerLogic Tag Rope 2000A 3P	PLTR20003P	●	●	FW v001.001.000
Wireless CO ₂ sensor	SED-CO2-G-5045	●	●	FW v001.001.004
Wireless temperature and humidity sensor	SED-TRH-G-5045	●	●	FW v001.001.004
PowerTag A (EwSenseTemp)	ESST010B0400	●	●	FW v001.001.004
PowerTag Ambient wireless temperature sensor	A9XST114	●	●	FW v001.001.005
PowerLogic HeatTag	SMT10020	●	●	FW v002.002.009
Wireless indication auxiliary for ComPacT NSXm and PowerPacT B-frame	LV429453	●	●	FW v001.000.000
Wireless indication auxiliary for ComPacT NSX, PowerPacT H-, J-, and L-Frame, ComPacT NS, and PowerPacT M-, P-frame	LV429454	●	●	FW v001.000.000
Acti9 Active iC40 and iC60	A9TAA●●●●, A9TAB●●●●, A9TDEC●●●, A9TDFC●●●, A9TDFD●●●, A9TPDD●●●, A9TPED●●●, A9TYAE●●●, A9TYBE●●●	●	●	FW v001.000.001

Ethernet

The following table shows the minimum EcoStruxure Panel Server firmware version required to enable Ethernet communication with devices for real-time measurement monitoring in EcoStruxure Panel Server webpages.

● Available

● Not available

EcoStruxure Panel Server model		Universal	
EcoStruxure Panel Server firmware version		001.001.000	001.002.000
PowerLogic CM3250 circuit monitor		●	●
PowerLogic CM3350 circuit monitor		●	●
PowerLogic CM4000 circuit monitor		●	●
PowerLogic PM5320 power meter	METSEPM5320	●	●
PowerLogic PM5340 power meter	METSEPM5340	●	●
PowerLogic PM5341 power meter	METSEPM5341	●	●
PowerLogic PM5560 power meter	METSEPM5560	●	●
PowerLogic PM5561 power meter	METSEPM5561	●	●
PowerLogic PM5563 power meter	METSEPM5563	●	●
PowerLogic PM5570 power meter	METSEPM5570	●	●
PowerLogic PM5580 power meter	METSEPM5580	●	●
PowerLogic PM5650 power meter	METSEPM5650	●	●
PowerLogic PM5660 power meter	METSEPM5660	●	●
PowerLogic PM5661 power meter	METSEPM5661	●	●
PowerLogic PM5760 power meter	METSEPM5760	●	●
PowerLogic PM5761 power meter	METSEPM5761	●	●
PowerLogic PM810 power meter		●	●
PowerLogic PM820 power meter		●	●
PowerLogic PM850 power meter		●	●
PowerLogic PM870 power meter		●	●

EcoStruxure Panel Server model		Universal	
EcoStruxure Panel Server firmware version		001.001.000	001.002.000
PowerLogic PM8000 meter	METSEPM8240	●	●
	METSEPM8243	●	●
	METSEPM8244	●	●
	METSEPM8210	●	●
	METSEPM8213	●	●
	METSEPM8214	●	●
	METSEPM82101	●	●
	METSEPM82103	●	●
	METSEPM82104	●	●
	METSEPM82143	●	●
	METSEPM82144	●	●
	METSEPM82401	●	●
	METSEPM82403	●	●
	METSEPM82404	●	●
	METSEPM82443	●	●
METSEPM82444	●	●	
ComPacT NS with MicroLogic A connected to an IFE Ethernet interface		●	●
ComPacT NS with MicroLogic E connected to an IFE Ethernet interface		●	●
ComPacT NS with MicroLogic H connected to an IFE Ethernet interface		●	●
ComPacT NS with MicroLogic P connected to an IFE Ethernet interface		●	●
ComPacT NSX with MicroLogic A connected to an IFE Ethernet interface		●	●
ComPacT NSX with MicroLogic E connected to an IFE Ethernet interface		●	●
MasterPacT NT/NW with MicroLogic A connected to an IFE Ethernet interface		●	●
MasterPacT NT/NW with MicroLogic E connected to an IFE Ethernet interface		●	●
MasterPacT NT/NW with MicroLogic H connected to an IFE Ethernet interface		●	●
MasterPacT NT/NW with MicroLogic P connected to an IFE Ethernet interface		●	●
MasterPacT MTZ with MicroLogic X connected to an IFE Ethernet interface		●	●
MasterPacT MTZ with MicroLogic X connected to an eIFE Ethernet interface		●	●
PowerPacT P- and R-frame with MicroLogic A connected to an IFE Ethernet interface		●	●
PowerPacT P- and R-frame with MicroLogic E connected to an IFE Ethernet interface		●	●
PowerPacT P- and R-frame with MicroLogic H connected to an IFE Ethernet interface		●	●
PowerPacT P- and R-frame with MicroLogic P connected to an IFE Ethernet interface		●	●
PowerPacT H-, J-, and L-Frame with MicroLogic A connected to an IFE Ethernet interface		●	●
PowerPacT H-, J-, and L-Frame with MicroLogic E connected to an IFE Ethernet interface		●	●

Modbus

The following table shows the minimum EcoStruxure Panel Server firmware version required to enable Modbus communication with devices for real-time measurement monitoring in EcoStruxure Panel Server webpages.

● Available

● Not available

EcoStruxure Panel Server model		Universal	
		001.001.000	001.002.000
EcoStruxure Panel Server firmware version			
PowerLogic CM3250 circuit monitor		●	●
PowerLogic CM3350 circuit monitor		●	●
PowerLogic CM4000 circuit monitor		●	●
PowerLogic EM3550 energy meter		●	●
PowerLogic EM3550A energy meter		●	●
PowerLogic EM3555 power and energy meter		●	●
PowerLogic EM3555A energy meter		●	●
PowerLogic EM4200 Enercept power and energy meter		●	●
PowerLogic EM6400NG energy meter	METSEEM6400NGRSCL2	●	●
	METSEEM6400NGRSCL5	●	●
	METSEEM6400NGRSCL1	●	●
PowerLogic EM6433H energy meter	METSEEM6433HCL10RS	●	●
	METSEEM6433HCL05RS	●	●
PowerLogic EM6436H energy meter	METSEEM6436HCL10RS	●	●
	METSEEM6436HCL05RS	●	●
EasyLogic PM1130H meter	METSEPM1130HCL05RS	●	●
	METSEPM1130HCL05RD	●	●
EasyLogic PM2130 meter	METSEPM2130D	●	●
EasyLogic PM2220 meter	METSEPM2220D	●	●
EasyLogic PM2230 meter	METSEPM2230D	●	●
EM7200	30002055	●	●
	30002198	●	●
	30002975	●	●
EasyLogic PM1125H meter	METSEPM1125HCL10RS	●	●
	METSEPM1125HCL10RD	●	●
	METSEPM1125HCL05RD	●	●
	METSEPM1125HCL02RD	●	●
Acti9 iEM2050 energy meter	A9MEM2050	●	●
Acti9 iEM2055 energy meter	A9MEM2055	●	●
Acti9 iEM2150 energy meter	A9MEM2150	●	●
Acti9 iEM2155 energy meter	A9MEM2155	●	●
Acti9 iEM3150 energy meter	A9MEM3150	●	●
Acti9 iEM3155 energy meter	A9MEM3155	●	●
Acti9 iEM3250 energy meter	A9MEM3250	●	●

EcoStruxure Panel Server model		Universal	
EcoStruxure Panel Server firmware version		001.001.000	001.002.000
Acti9 iEM3255 energy meter	A9MEM3255	●	●
Acti9 iEM3350 energy meter	A9MEM3350	●	●
Acti9 iEM3355 energy meter	A9MEM3355	●	●
Acti9 iEM3455 energy meter	A9MEM3455	●	●
Acti9 iEM3555 energy meter	A9MEM3555	●	●
PowerLogic PM3250power meter		●	●
PowerLogic PM3255 power meter		●	●
PowerLogic PM5110 power meter		●	●
PowerLogic PM5111 power meter		●	●
PowerLogic PM5310 power meter		●	●
PowerLogic PM5330 power meter		●	●
PowerLogic PM5331 power meter		●	●
PowerLogic PM5560 power meter		●	●
PowerLogic PM5561 power meter		●	●
PowerLogic PM5563 power meter		●	●
PowerLogic PM8000 meter		●	●
ComPacT NS with MicroLogic A connected to an IFM Modbus interface		●	●
ComPacT NS with MicroLogic E connected to an IFM Modbus interface		●	●
ComPacT NS with MicroLogic H connected to an IFM Modbus interface		●	●
ComPacT NS with MicroLogic P connected to an IFM Modbus interface		●	●
MasterPacT NT/NW with MicroLogic A connected to an IFM Modbus interface		●	●
MasterPacT NT/NW with MicroLogic E connected to an IFM Modbus interface		●	●
MasterPacT NT/NW with MicroLogic H connected to an IFM Modbus interface		●	●
MasterPacT NT/NW with MicroLogic P connected to an IFM Modbus interface		●	●
MasterPacT MTZ with MicroLogic X connected to an IFM Modbus interface		●	●
PowerPacT P- and R-frame with MicroLogic A connected to an IFM Modbus interface		●	●
PowerPacT P- and R-frame with MicroLogic E connected to an IFM Modbus interface		●	●
PowerPacT P- and R-frame with MicroLogic H connected to an IFM Modbus interface		●	●
PowerPacT P- and R-frame with MicroLogic P connected to an IFM Modbus interface		●	●
Easergy Sepam Series 20 B protection relay		●	●
Easergy Sepam Series 20 STM protection relay		●	●
Easergy Sepam Series 40 protection relay		●	●
NT935		●	●

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