



Automation Technology and WAGO Electronic Interface

Supplementary Catalog to Full Line Catalogs, Volumes 3/4/6

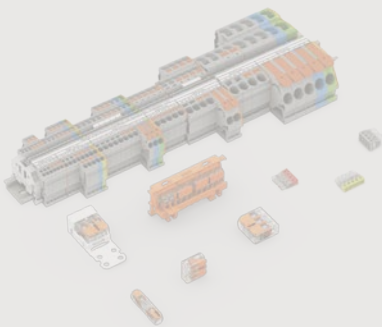
Edition 2021/2

WAGO

WAGO Rail-Mount Terminal Blocks and Connectors

Full Line Catalog, Volume 1 – Edition 2021/2022

1

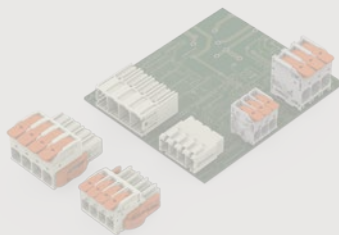


WAGO

WAGO PCB Terminal Blocks and Connectors

Full Line Catalog, Volume 2 – Edition 2021/2022

2



WAGO

Automation Technology

Full Line Catalog, Volume 3 – Edition 2021/2022

3



WAGO

WAGO Electronic Interface

Full Line Catalog, Volume 4 – Edition 2021/2022

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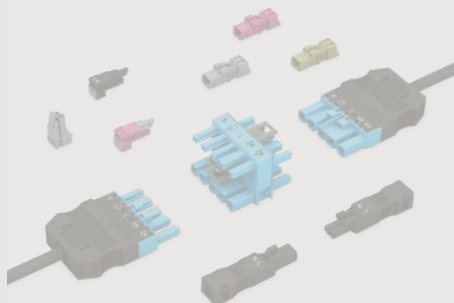


WAGO

WAGO Pluggable Connection System WINSTA®

Full Line Catalog, Volume 5 – Edition 2021/2022

5



WAGO

WAGO Marking

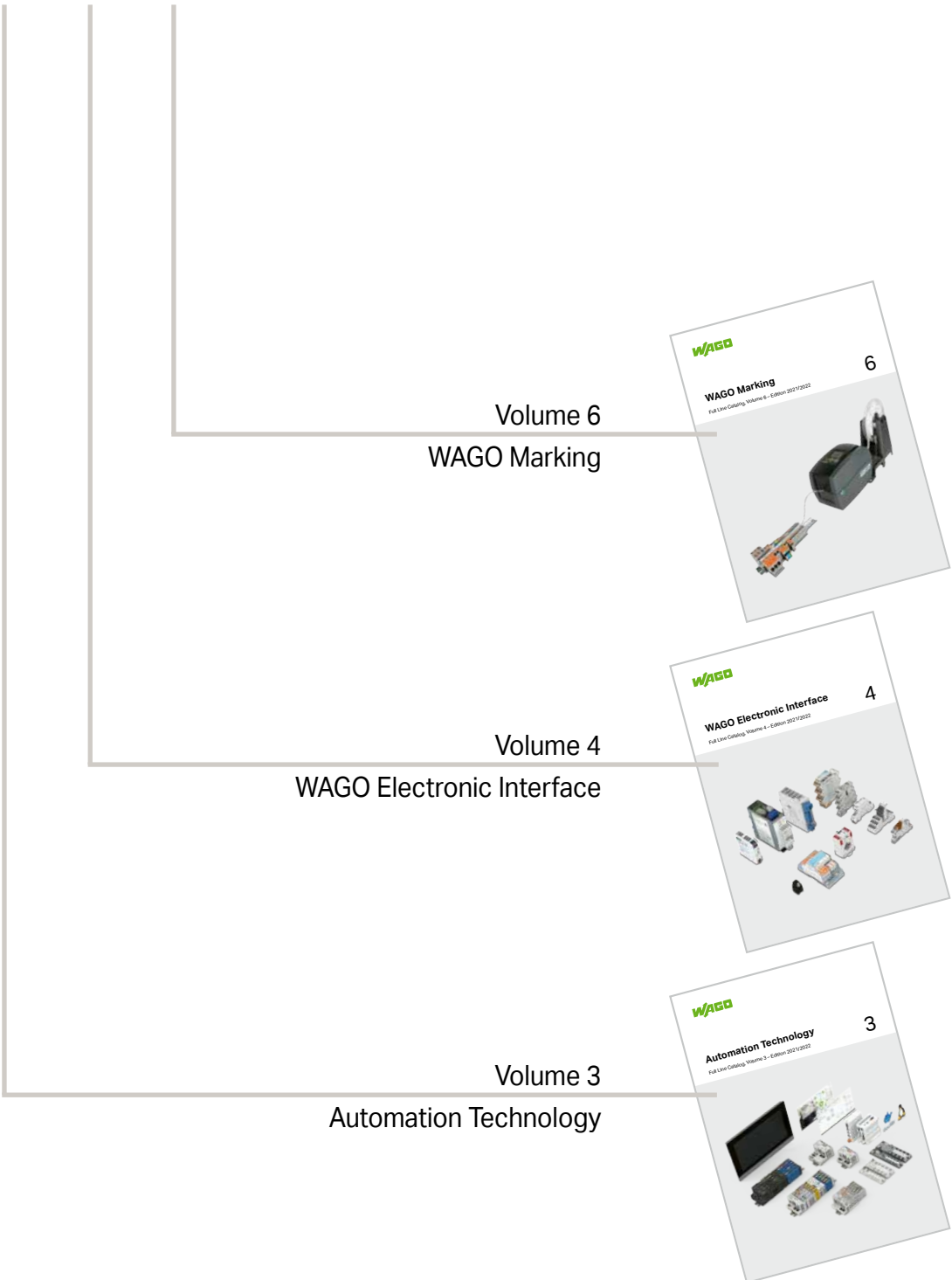
Full Line Catalog, Volume 6 – Edition 2021/2022

6






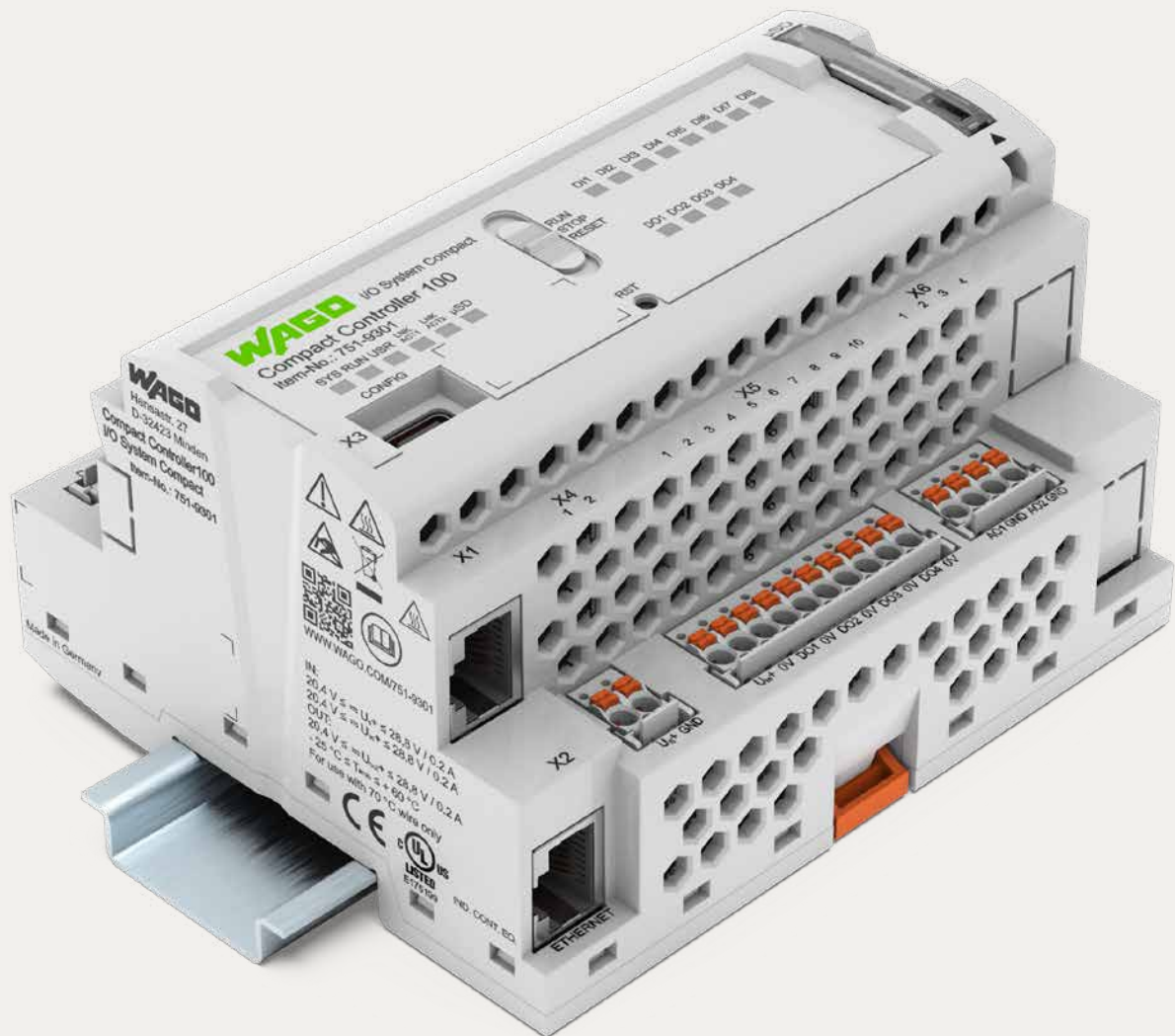
The new items in this catalog supplement products found in the following main catalogs

N 3/4/6



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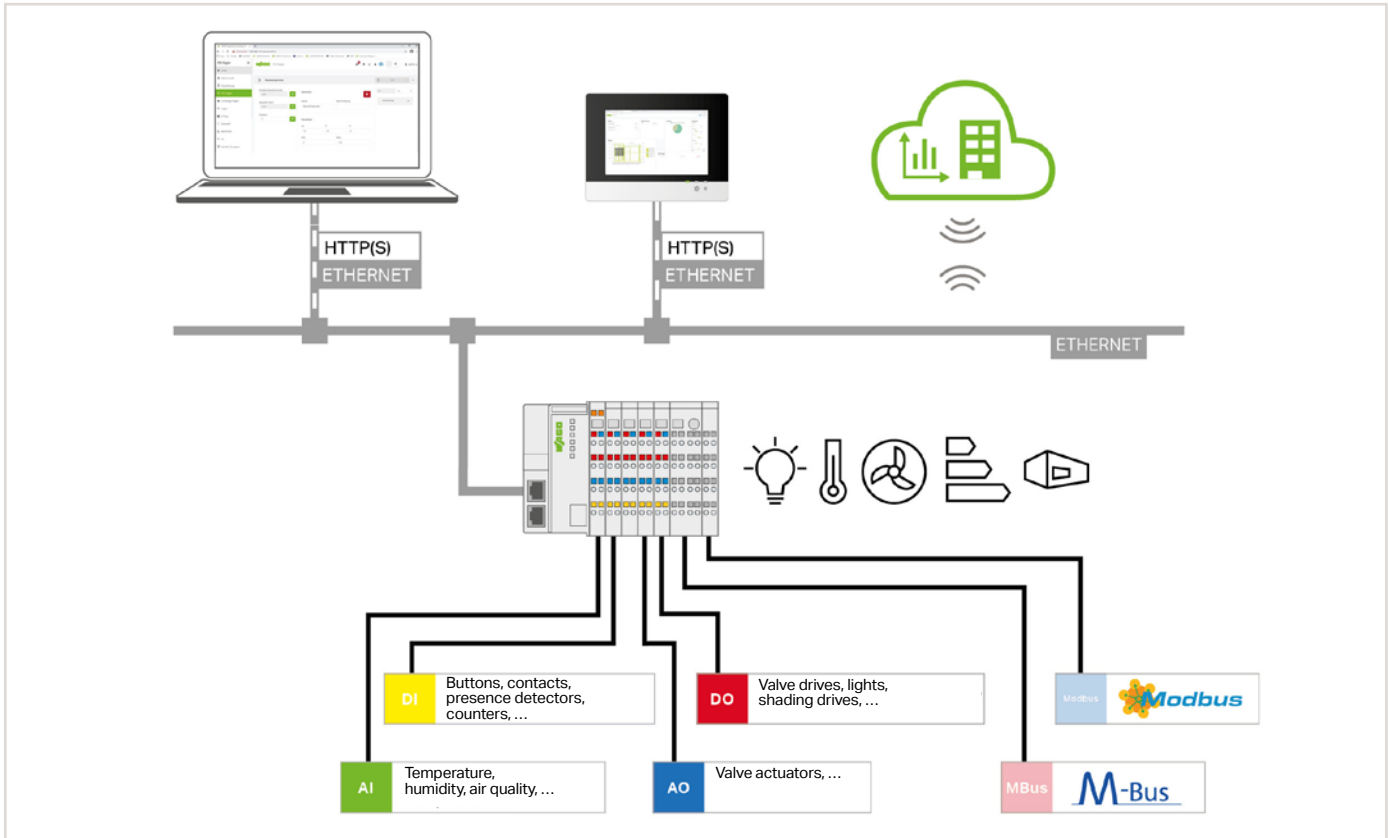
Volume 3, Automation Technology

Volume 3, Automation Technology

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Products highlighted in RED are new items for Autumn 2021.

WAGO Application Building Control



WAGO Application Building Control is a pre-programmed software solution for building automation applications.

- The application is ideal for virtually all building automation functions, such as lighting control, HVAC control, and energy data management.
- Despite pre-programming, it is possible to define almost any data points that can be linked together, put into dependency with each other or provided with control and regulating functions.
- The application has an integrated dashboard for advanced visualization options.
- Commissioning is performed through a configuration interface, following the design principle of "configuration instead of programming."

Advantages:

- Easy configuration, commissioning and operation without programming knowledge
- Highly versatile
- High flexibility and scalability for adapting to different needs
- Integrated monitoring, alarming for limit violation and status monitoring
- Optional connection to WAGO's "Cloud Building Operation and Control" cloud solution for access to all of the data from anywhere in the world

Benefits:

- High cost efficiency and profitability thanks to quick and easy commissioning
- User-friendly and intuitive visualization and operation
- High functional safety and reliability thanks to pre-programmed and tested functional units

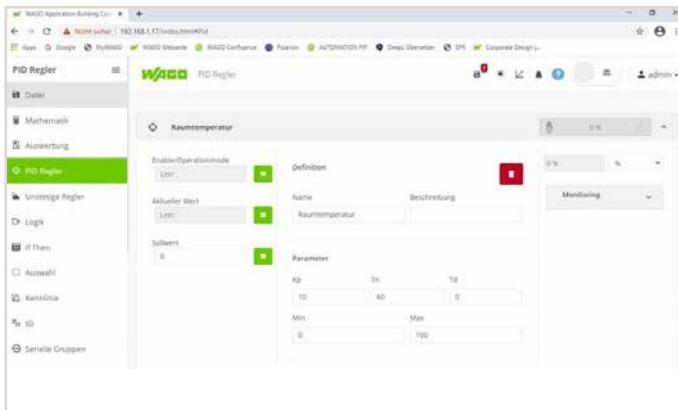
Item Description	
	Item No.
WAGO Application Building Control; Single License; Online Activation	2759-2120/261-1000
Compatible Controllers	
Controller PFC200; G2; 2ETH RS	750-8212

A single license allows installation on one controller. One license per controller is required.

Delivery type	License certificate by email (software available for download)
For data sheet and additional information, see:	wago.com/2759-2120/261-1000

The "WAGO Application Building Control" software is a pre-programmed application based on the e!COCKPIT Development Environment and can be used for PFC200 G2 Controllers.

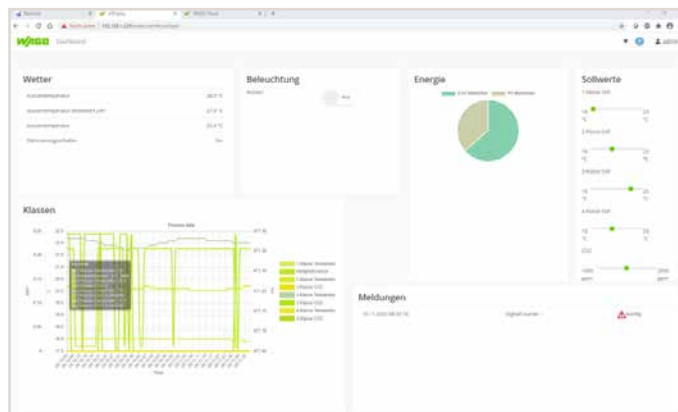
To download the application and license to the device, WAGOupload software is required, which can be obtained free of charge from the WAGO homepage. Internet connection may be required for license activation.



Configuration Screen

Data point catalog

- Central list of all configured data points (inputs, outputs, functions, dashboard elements)
- The input value, e.g., for a function or an output is selected from the data point list.
- Search function for finding the desired data point (helpful for long lists of larger applications)



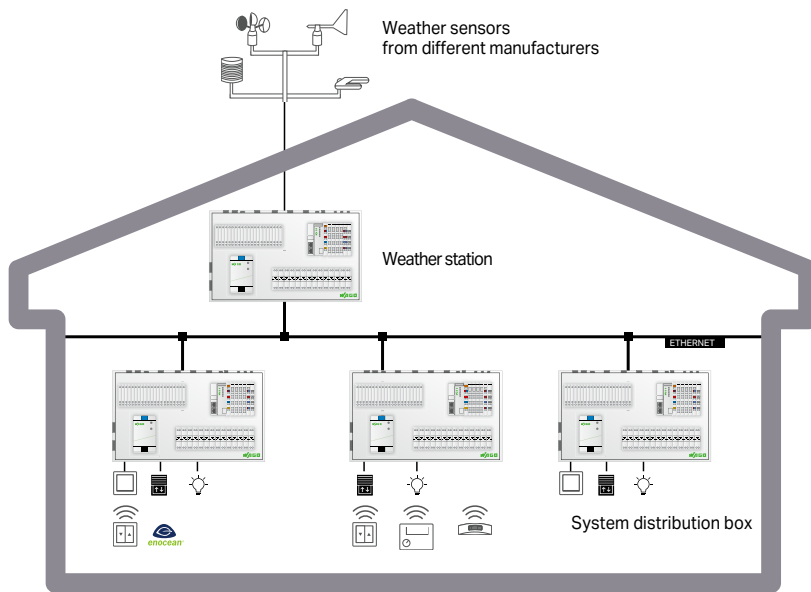
Dashboard

The integrated dashboard offers a freely configurable visualization interface for the display of current system values and states and the possibility of operator interventions

The I/O modules (type and number) connected via the local bus are automatically detected and displayed in the application for further configuration.

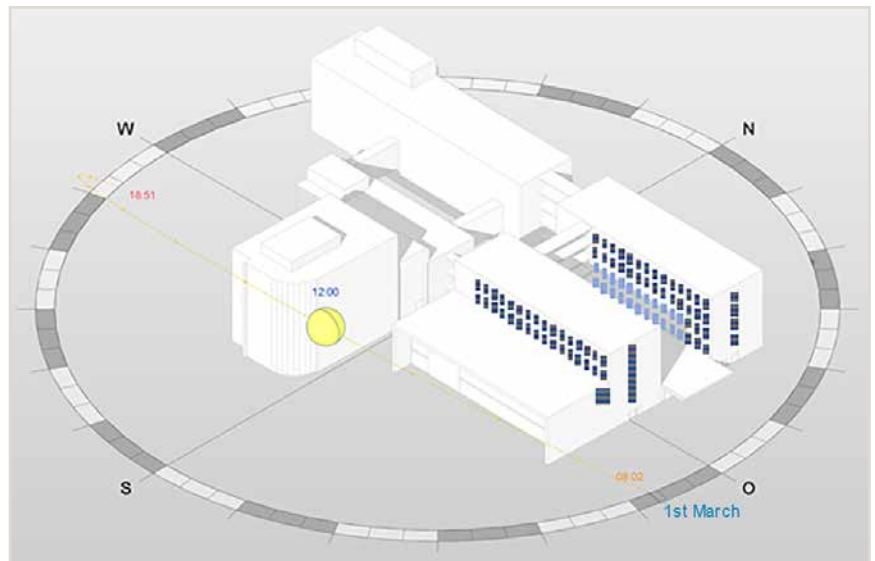
WAGO Application Building Control			
Supported I/O modules as interfaces for the connection of sensors and actuators		Item No.	
Quantity	Digital Input Modules		
	10	2-Channel Digital Input; 230 VAC	750-405
		4-Channel Digital Input; 24 VDC; 3 ms	750-402
		4-Channel Digital Input; 120/230 VAC	753-440
		8-Channel Digital Input; 24 VDC; 3 ms	750-430
		8-Channel Digital Input; 24 VDC; 3 ms; 2-Wire Connection	750-1415
		16-Channel Digital Input; 24 VDC; 3 ms	750-1405
10	Analog Input Modules		
		2-Channel Analog Input; for Pt100/RTD Resistance Sensors	750-461
		2-Channel Analog Input; 4 ... 20 mA; Single-Ended	750-466
		2-Channel Analog Input; 0 ... 10 VDC; Single-Ended	750-467
		4-Channel Analog Input; 4 ... 20 mA; Single-Ended	750-455
		4-Channel Analog Input; 0 ... 10 VDC; Single-Ended	750-459
		4-Channel Analog Input; Voltage/Current; Differential Input; 16 Bits; Diagnostics	750-471
	8-Channel Analog Input; 0 ... 10 VDC/±10 V; Single-Ended	750-497	
10	Analog Temperature Input Modules		
		8-Channel Analog Input; Resistance Measurement; Adjustable	750-451
	4-Channel Analog Input; Resistance Measurement; Adjustable	750-450	
10	Digital Output Modules		
		4-Channel Digital Output; 24 VDC; 0.5 A	750-504
		2-Channel Relay Output; 250 VAC; 1 A; Potential-Free; 2 Changeover Contacts	750-517
		8-Channel Digital Output; 24 VDC; 0.5 A	750-530
		8-Channel Digital Output; 24 VDC; 0.5 A; 2-Wire Connection	750-1515
	16-Channel Digital Output; 24 VDC; 0.5 A	750-1504	
10	Analog Output Modules		
		2-Channel Analog Output; 0 ... 10 VDC	750-550
		2-Channel Analog Output; 0 ... 10 VDC; 10 Bits; 100 mW/24 V	750-560
		4-Channel Analog Output; 0 ... 10 VDC	750-559
	8-Channel Analog Output; 0 ... 10 VDC/±10 V	750-597	
4	RS-232/485 Serial Interface Modules		
	Serial Interface RS-232/485	750-652	
4	M-Bus Modules		
	M-Bus Master	753-649	

WAGO Application Weather Station, Shadow Correction



The "Shadow Correction" function extends the sun position-dependent slat tracking and additionally optimizes the supply of daylight in the rooms. It takes the shading caused by surrounding buildings and vegetation into account according to an existing shading analysis for the specific property. As a result, only the blinds that are actually in the sun are adjusted to the sun's position. Blinds of the shaded windows can be raised, or their slats can be set in a horizontal position, to improve the supply of sunlight in the room, increasing workplace comfort.

Note:
 This is an additional function for the WAGO Application Weather Station.
 A license is required for productive use of the "Shadow Correction" function without time restriction. The full scope of this function can be used for evaluation without a license for 30 days.
 To download the license to the device, WAGOupload software is required, which can be obtained free of charge from the WAGO homepage.
 Internet connection may be required for license activation.



Item Description	Item No.
Application Weather Station; Shadow Correction; Single License; Online activation	2759-242/261-1000
Compatible Controllers	
Controller PFC200; G2; 2ETH RS	750-8212

A single license allows installation on one controller. One license per controller is required.

Delivery type	License certificate by email (software available for download)
For data sheet and additional information, see:	wago.com/2759-242/261-1000

The "Application Weather Station; Shadow Correction" software is a pre-programmed application based on the e!COCKPIT Development Environment and can be used for PFC200 G2 Controllers.

To download the application and license to the device, WAGOupload software is required, which can be obtained free of charge from the WAGO homepage. Internet connection may be required for license activation.

Runtime Software

e!RUNTIME; OPC UA Server Extended

Function:
 "OPC Unified Architecture" (OPC UA) is a platform-independent and service-oriented architecture. It is used to describe and transport data. Because the services are independent, devices from different manufacturers can be interconnected.

The OPC UA server can release PFC200 Series, Touch Panel 600 and Edge Controller runtime data to a product in the network when it meets the required preconditions. The device must have an ETHERNET interface that can be used for communication and have the memory capacity and processing time required by the server.

The "OPC UA Server Extended" license activates an extended range of functions for the OPC UA server.

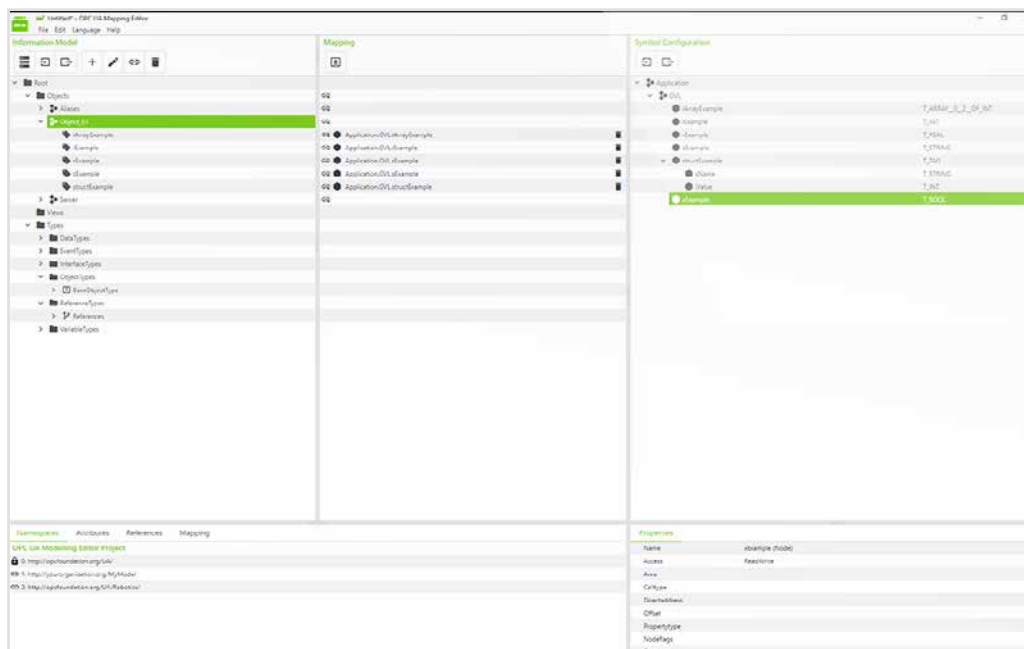
Extended functional range:
 Mapping the "PLCopen" information model to any other information model.

By default, WAGO controllers use the "PLCopen" information model to provide data for other applications. The OPC UA Mapping Editor can be used to map this information model to any other OPC UA model, for example, to OPC UA base models such as "Robotics" or "Euro-map77".

To use other, arbitrary information models, it is necessary to equip the device with a license.

Mapping to other, arbitrary information models is performed via the WAGO OPC UA Mapping Editor.

Benefits:
 Mapping the "PLCopen" information model to any other information models



Item Description		
e!RUNTIME; OPC UA Server Extended; 300		Item No.
Single License; Online Activation		2759-2233/211-1000
Compatible Controllers		
PFC200; G2		750-821x/xxxx-xxxx
Item Description		
e!RUNTIME; OPC UA Server Extended; 600		Item No.
Single License; Online Activation		2759-2236/211-1000
Compatible Devices		
Hardware Configuration	Touch Panel 600 Standard Line	762-43xx/8000-002
PIO 3	Touch Panel 600 Advanced Line	762-53xx/8000-002
	Touch Panel 600 Marine Line	762-63xx/8000-002
Hardware Configuration	Touch Panel 600 Standard Line*)	762-42xx/8000-001
	Touch Panel 600 Advanced Line*)	762-52xx/8000-001
PIO 2	Touch Panel 600 Marine Line*)	762-62xx/8000-001
WAGO Edge Controller		758-8303/8000-002

Minimum firmware version	Firmware (18) Patch 3
Minimum e!COCKPIT version	V1.9
Delivery type	License certificate per email
For data sheet and additional information, see:	wago.com/2759-2233/211-1000 wago.com/2759-2236/211-1000

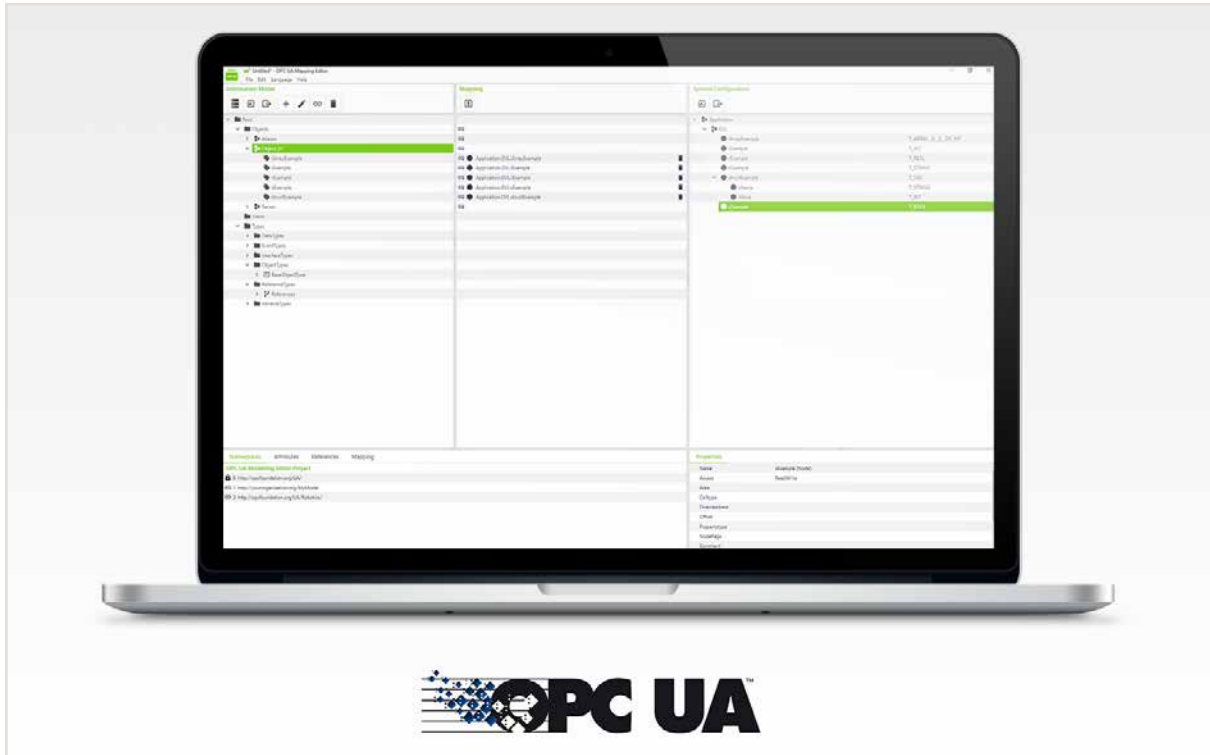
An Internet connection to the PC that's equipped with e!COCKPIT may be required for license activation. A single license allows installation on one device. Every additional device requires its own license.

OPC UA is a registered trademark of the OPC Foundation.

xx is a wildcard; the license applies to all Touch Panel sizes.

*) The prerequisite for using the OPC UA Server Extended is the license equipment of the device with a PLC license as Control Panel.

OPC UA Mapping Editor



Functions:

The OPC UA Mapping Editor for WAGO's Linux®-based controllers offers even greater flexibility for leveraging the benefits of OPC UA communication. These "companion specifications" have been defined to cope with the demands of different industries having similar products and machines. These specifications primarily describe information models.

The OPC UA Mapping Editor allows you to modify the information model that specifies how the WAGO OPC UA server provides the data; you can also map the data onto any information model. For this purpose, a symbol configuration is generated with *e!COCKPIT*. After the symbol configuration is loaded, the variables are mapped to the newly created information model. Once the resulting mapping is loaded onto the controller, it's easy to implement OPC UA communication for different applications and performance demands. Customer-specific adaptations are also possible, even if they don't correspond to any particular specification.

Operation on the controller requires an "Extended" *e!RUNTIME* license for the WAGO OPC UA Server (2759-2233/211-1000 or 2759/2236/211-1000) on the device. Mapping Editor, which creates the information model, is free of charge.

Benefits:

- Adaptation of the information model provided by the OPC UA Server to any information model
- Flexible use of OPC UA

Use:

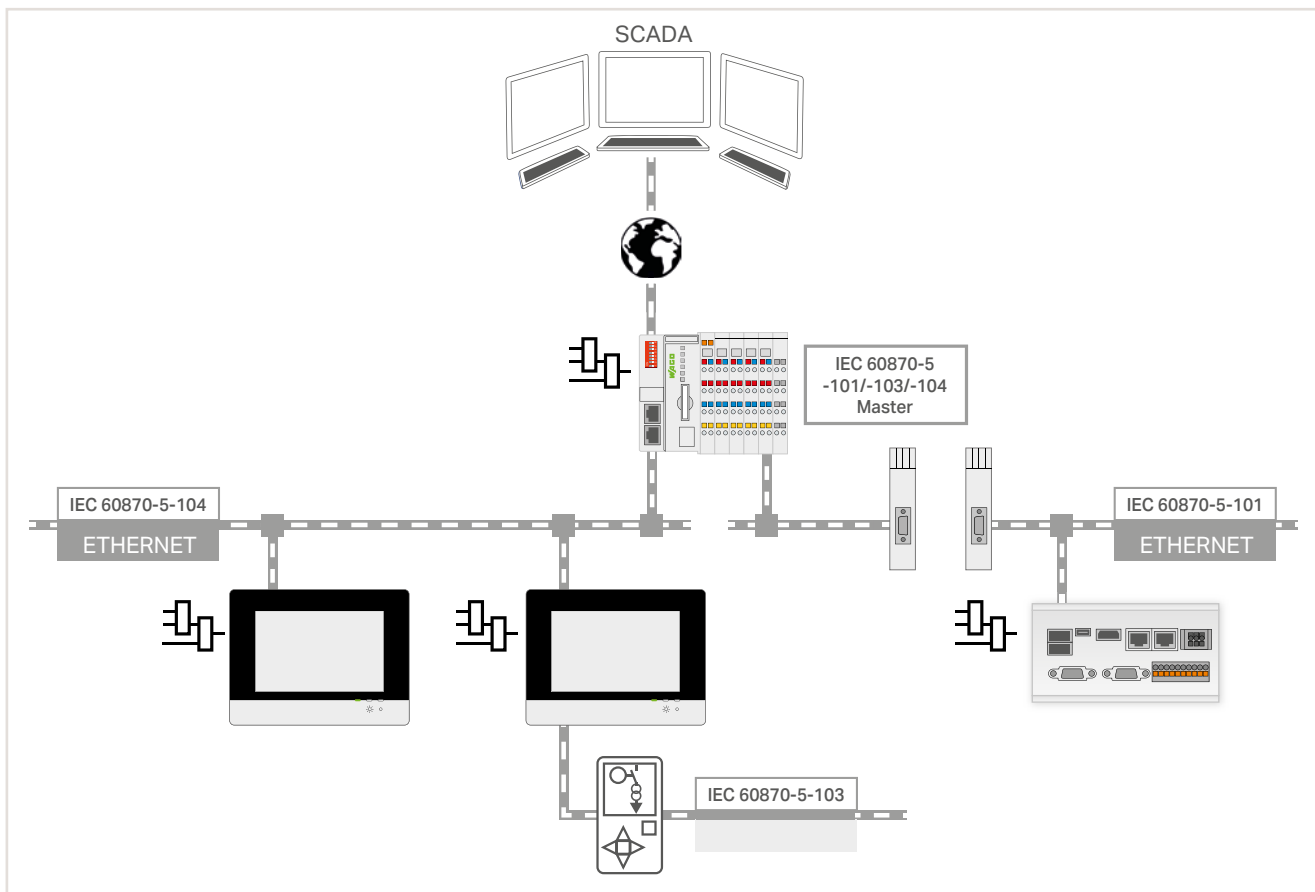
The OPC UA Mapping Editor has been developed for use on Windows 10-based systems.

Item Description	
OPC UA Mapping Editor	
Download: www.wago.com	
Supported Controllers	Item No.
2nd Generation PCF200	750-821x
TP600 Control Panels	752-430x
Edge Controller	752-8303/8000-002

System Requirements	
Operating system	Windows 10
Memory	4 GB
Free hard disk space	800 MB
Processor	Dual-core CPU
Screen resolution	Minimum: 1,366 x 768 pixels Recommended: 1,920 x 1,080 pixels
Minimum <i>e!COCKPIT</i> version	V1.9 or higher
Minimum firmware version	FW18 patch 3
Delivery type	Download

OPC UA Mapping Editor is free of charge. However, running it on a controller requires an "Extended" *e!RUNTIME*-license for the WAGO OPC UA Server.

Runtime Software e!RUNTIME; IEC 60870 Master L



Function:

The parameters for communication per the IEC 60870 Protocol can be set with a configurator integrated into the *e!COCKPIT* Software. The configurator sets up IEC 60870 objects while configuring data exchange to the PLC application or I/O modules. Import and export functions in CSV format allow configured data to be transmitted to other engineering tools. With this license, the IEC 60870-5-101, -103 and -104 Protocols can be activated on the master. This permits the creation of gateways that convert one protocol into another, e.g., allowing protection devices to be read out via IEC 60870-5-103 and data to be transmitted to the network control system via IEC 60870-5-104.

IEC 60870-101/-104 Information Objects can be used to monitor the direction of single, double and step messages – bit patterns, counter values, as well as normalized, scaled and floating-point measurement values can also be used. All information objects can be received with or without a time stamp. This also applies to information objects in the control direction.

The IEC 60870-5 Master L can support connections to up to 16 IEC 60870-5 Slave Devices.

Item Description		
e!RUNTIME; IEC 60870 Master L		Item No.
Single License; Online Activation		2759-296/211-1000
Compatible Devices		
Hardware	Touch Panel 600 Standard Line	762-43xx/8000-002
Configuration	Touch Panel 600 Advanced Line	762-53xx/8000-002
PIO 3	Touch Panel 600 Marine Line	762-63xx/8000-002
Hardware	Touch Panel 600 Standard Line	762-42xx/8000-001
Configuration	Touch Panel 600 Advanced Line	762-52xx/8000-001
PIO 2	Touch Panel 600 Marine Line	762-62xx/8000-001
WAGO Edge Controller		758-8303/8000-002

xx is a wildcard; the license applies to all Touch Panel sizes.

Your Benefits:

- Use the controller as a telecontrol master to read data from IEC-60870-5-101/-104 Field Devices or IEC-60870-5-103 Protection Devices (slaves) and process it locally in the controller.
- Create a gateway application to use this master function to forward read data to a higher-level control system or cloud. This may require additional software licenses, such as the WAGO IEC 60870 Slave, DNP 3 Slave, Sparkplug or WAGO Cloud.

Use:

Enter the license into *e!COCKPIT*, assign it to a device and load both the license and project into the controller. No other installation steps are required.

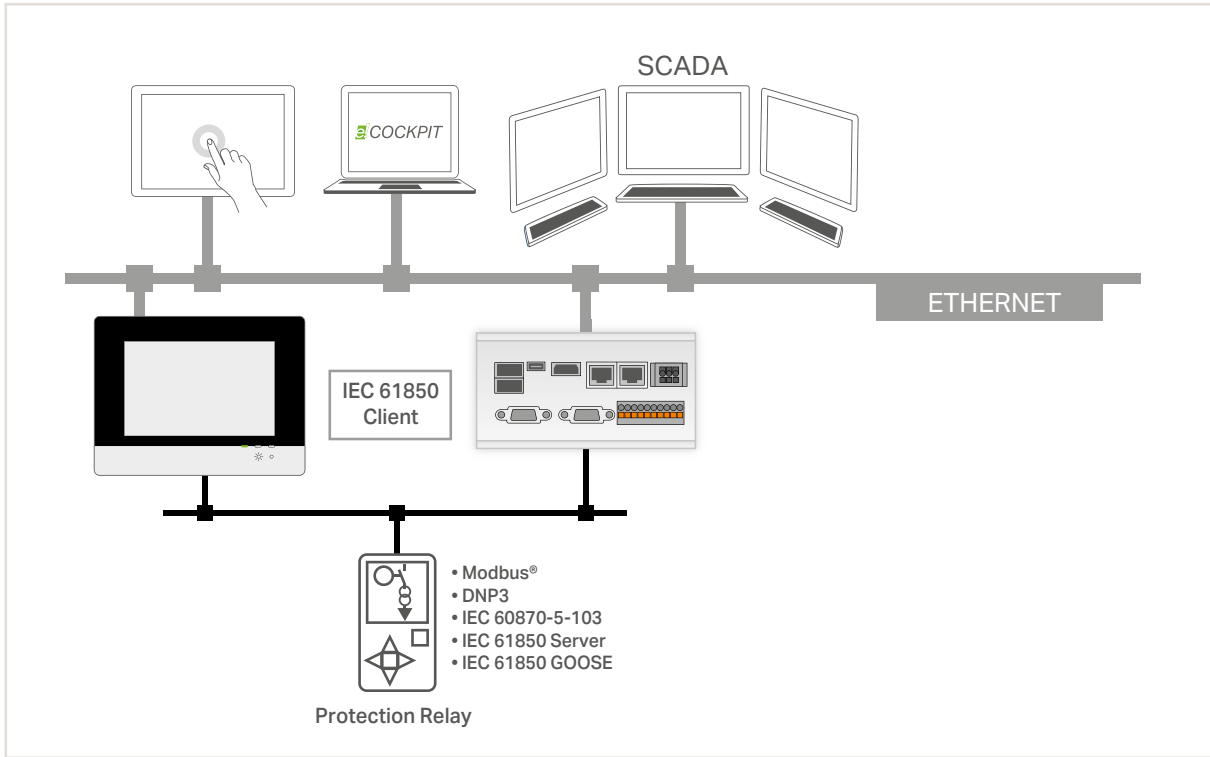
Technical Data:

See Section "Functionality of the WAGO Protocol Library according to IEC 60870-5-101, and -104" in Product Manual "Planning the IEC 60870 Protocol with the Telecontrol Configurator and *e!COCKPIT*."

Minimum <i>e!COCKPIT</i> version	V1.9
Delivery type	Licence certificate via email (<i>e!COCKPIT</i> already contains the software itself)
For data sheet and additional information, see:	wago.com/2759-296/211-1000

An Internet connection to the PC that's equipped with *e!COCKPIT* may be required for license activation. A single license allows installation on one device. Every additional device requires its own license.

Runtime Software e!RUNTIME; IEC 61850 Client L



Function:

The parameters for communication per the IEC 61850 Protocol can be set with a configurator integrated into the e!COCKPIT Software.

The configurator sets up the reading of IEC 61850 object data from protection devices, for example. If the configuration of the third-party device is available in IEC-61850 SCL exchange format, it can be read in using the configurator's import functions. Alternatively, it is also possible to read the configuration from the third-party device using the configurator's online browsing function.

With this license, the IEC 61850 Protocol can be activated on the client. This permits the creation of gateways that convert one protocol into another, e.g., allowing protection devices to be read out via IEC 61850 and data to be transmitted to the network control system via IEC 60870-5-104.

The IEC 61850 Client L processes data from up to four servers with each 10 requests.

Your Benefits:

- Use the controller as a telecontrol master (client) to read data from IEC 61850 Protection Devices (servers) and process it locally in the controller.
- Create a gateway application to use this client function to forward read data to a higher-level control system or cloud. This may require additional software licenses, such as the WAGO IEC 60870 Slave, DNP 3 Slave, Sparkplug or WAGO Cloud.

Use:

Enter the license into e!COCKPIT, assign it to a device and load both the license and project into the device. No other installation steps are required.

Technical Data:

See Product Manual "Planning the IEC 61850 Protocol with the Telecontrol Configurator and e!COCKPIT."

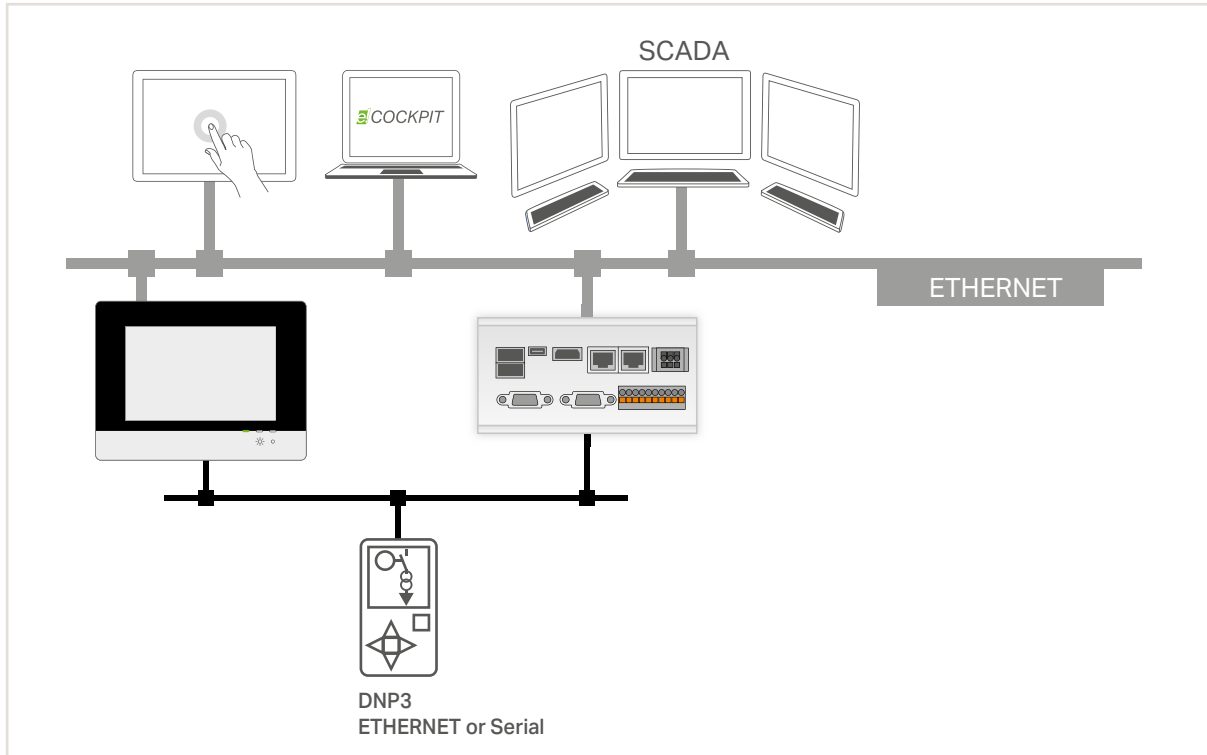
Item Description		
e!RUNTIME; IEC 61850 Client L		Item No.
Single License; Online Activation		2759-2246/211-1000
Compatible Devices		
Hardware	Touch Panel 600 Standard Line	762-43xx/8000-002
Configuration	Touch Panel 600 Advanced Line	762-53xx/8000-002
PIO 3	Touch Panel 600 Marine Line	762-63xx/8000-002
Hardware	Touch Panel 600 Standard Line	762-42xx/8000-001
Configuration	Touch Panel 600 Advanced Line	762-52xx/8000-001
PIO 2	Touch Panel 600 Marine Line	762-62xx/8000-001
WAGO Edge Controller		758-8303/8000-002

Minimum e!COCKPIT version	V1.9
Delivery type	Licence certificate via email (e!COCKPIT already contains the software itself)
For data sheet and additional information, see:	wago.com/2759-2246/211-1000

An Internet connection to the PC that's equipped with e!COCKPIT may be required for license activation. A single license allows installation on one device. Every additional device requires its own license.

xx is a wildcard; the license applies to all Touch Panel sizes.

Runtime Software e!RUNTIME; DNP3 Master L



Function:

The DNP3 Configurator is part of the e!COCKPIT Software. With this license, the DNP3 Protocol can be activated on the master. The configurator fully supports the DNP3-specific functions of all WAGO telecontrollers. The configurator sets up DNP3 objects while configuring data exchange to the PLC application or I/O modules. As an alternative to manually configuring connections to DNP3 Slaves, it is also possible to use a description file to import the configurations in the standard DNP3 XML device profile format.

In performance class L, the master can maintain connections for up to four DNP3 Slaves, thereby working as TCP or serial DNP3 Master. Up to 10,000 events from connected DNP3 Slaves can be saved in the controller's internal RAM or on the SD card.

In the monitoring direction, the WAGO DNP3 Master L can receive digital, analog and count values from the slave. Both digital and analog values can be sent in the control direction. Analog values can be processed in 16-bit, 32-bit or FLOAT format. Count values can be processed in 16-bit or 32-bit format.

Your Benefits:

- Use of the controller as a DNP3 Master to read and process data from DNP3 Slaves (field devices) via TCP, UDP or serially.
- Create a gateway application to transfer data from DNP3 Slaves (field devices) and other protocols (e.g., IEC 60870, Modbus®).

Use:

Enter the license into e!COCKPIT, assign it to a device and load both the license and project into the device. No other installation steps are required.

Technical Data:

See the document "e!RUNTIME DNP3 Master Device Profile" on www.wago.com.

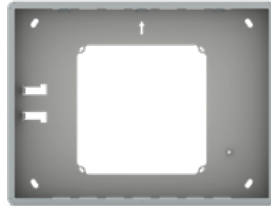
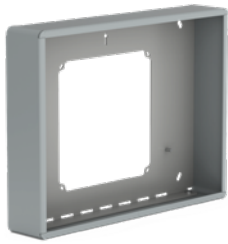
Item Description		
e!RUNTIME; DNP3 Master L		Item No.
Single License; Online Activation		2759-2296/211-1000
Compatible Devices		
Hardware	Touch Panel 600 Standard Line	762-43xx/8000-002
Configuration	Touch Panel 600 Advanced Line	762-53xx/8000-002
PIO 3	Touch Panel 600 Marine Line	762-63xx/8000-002
Hardware	Touch Panel 600 Standard Line	762-42xx/8000-001
Configuration	Touch Panel 600 Advanced Line	762-52xx/8000-001
PIO 2	Touch Panel 600 Marine Line	762-62xx/8000-001
WAGO Edge Controller		758-8303/8000-002

Minimum e!COCKPIT version	V1.9
Delivery type	Licence certificate via email (e!COCKPIT already contains the software itself)
For data sheet and additional information, see:	wago.com/2759-2296/211-1000

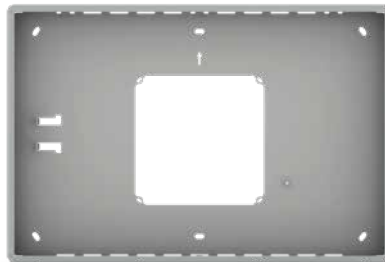
An Internet connection to the PC that's equipped with e!COCKPIT may be required for license activation. A single license allows installation on one device. Every additional device requires its own license.

xx is a wildcard; the license applies to all Touch Panel sizes.

Surface-Mounted Housing for Touch Panel 600; Visu Panel

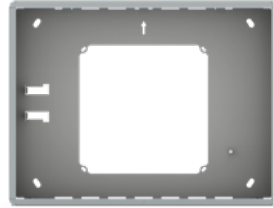


Item Description	Surface-Mounted Housing for Touch Panel 600; 25.7 cm (10.1"); 52.5 mm; Visu Panel
Item No.	762-9214
Technical Data	
Dimensions W x H x D (mm)	292.8 x 222.6 x 52.5
Weight	1300 g

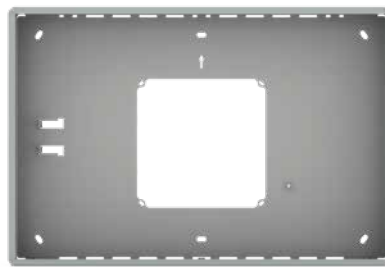
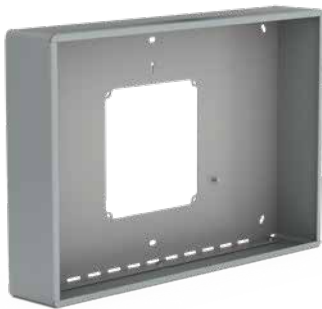


Item Description	Surface-Mounted Housing for Touch Panel 600; 39.6 cm (15.6"); 52.5 mm; Visu Panel
Item No.	762-9215
Technical Data	
Dimensions W x H x D (mm)	420 x 282 x 52.5
Weight	2500 g

Surface-Mounted Housing for Touch Panel 600; Control Panel

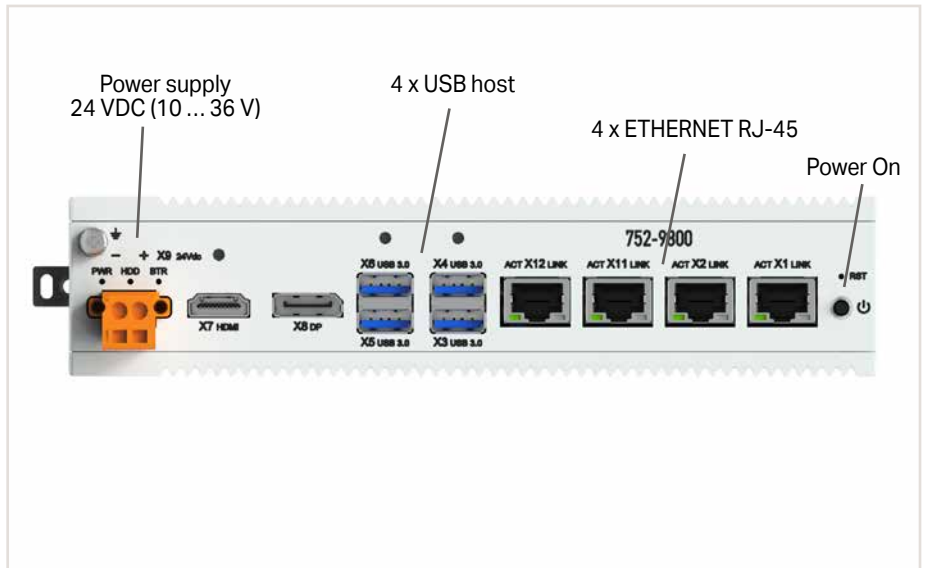


Item Description	Surface-Mounted Housing for Touch Panel 600; 25.7 cm (10.1"); 72.0 mm; Control Panel
Item No.	762-9314
Technical Data	
Dimensions W x H x D (mm)	292.8 x 222.6 x 72
Weight	1600 g



Item Description	Surface-Mounted Housing for Touch Panel 600; 39.6 cm (15.6"); 72.0 mm; Control Panel
Item No.	762-9315
Technical Data	
Dimensions W x H x D (mm)	420 x 282 x 72
Weight	3000 g

Edge Computer; 4 x ETHERNET, 4 x USB, HDMI, DP; 16 GB RAM, 256 GB Flash



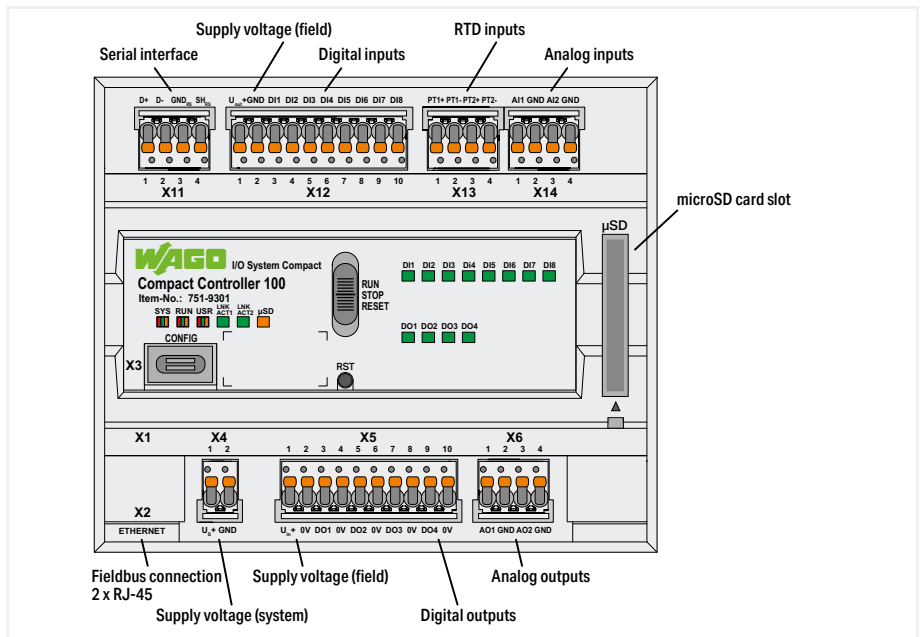
- 4 ETHERNET interfaces for connecting to field devices and IT network
- 4 USB ports for the optional connection of a USB stick, mouse or keyboard
- HDMI and display port interfaces for connecting a display

Item Description	Edge Computer; 4 x ETHERNET, 4 x USB, HDMI, DP; 16 GB RAM, 256 GB Flash
Item No.	752-9800
Order Text	EPC; 4ETH, 4USB, HDMI, DP; 16GB RAM, 256GB Flash
Technical Data	
Communication	Web browser
Visualization	Web server
ETHERNET protocols	DHCP; DNS; HTTP; HTTPS; SSH; SCP; SFTP
Operating system	Debian Linux 10.9
Processor	Intel® i7-7600U 2.8 GHz (max. 3.90 GHz)
Main memory (RAM)	16 GB; DDR4 2133 MHz
Internal memory (flash)	256 GB; SATA 2.5" SSD
Memory expansion	Full-size mPCIe slot; Drive slot for one 2.5" SSD HDD memory card (height 9.5 mm)
RTC (Real-Time Clock)	Battery type BR2032; 3 VDC
Connection technology: communication/fieldbus	ETHERNET: 4 x RJ-45 1000BASE-T
Baud rate	ETHERNET: 10/100/1000 Mbit/s
Interfaces	4 x USB 3.0 (Type A); 1 x HDMI v1.4, 1920 x 1080p @60Hz; 1 x DisplayPort 1.2, 2560 x 440p
Indicators	3 LEDs
Power supply	24 VDC (10 ... 36 V)
Input current (24 V)	2292 mA typ.; 3967 mA max.
Operating power	55 W typ.; 95.2 W max.
Dimensions (W x H x D)	45 x 200 x 140 mm
Weight	1810 g
Housing material	Aluminum, powder-coated
Mounting type	DIN-35-rail mount
Surrounding air temperature (operation)	-20 ... +60 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Protection type	IP40
Relative humidity (without condensation)	95 %
Approvals	CE*, FCC*, UL*; *pending

Compact Controller ▶ 2 x ETHERNET, RS-485; 8DI, 4DO, 2Ai, 2AO, 2NI1K/PT1K



751-9301

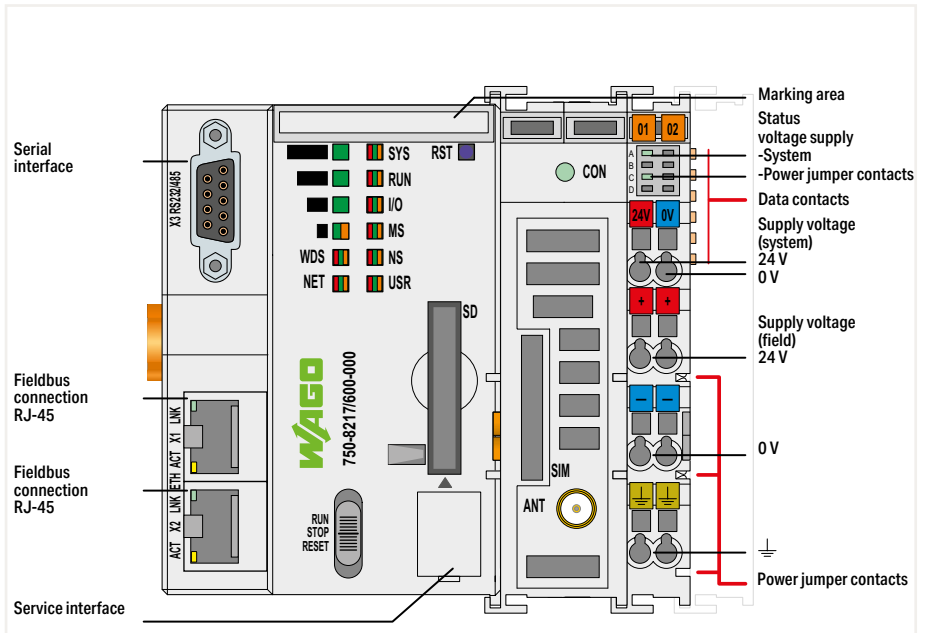


Version	
Item No.	751-9301
Order Text	Compact Controller 100
Default	
751-9301	
Compact Controller 100	
Technical Data	
Communication	Modbus (TCP, UDP); Modbus® RTU; RS-485 serial interface
ETHERNET protocols	DHCP; DNS; NTP; FTP; FTPS; SNMP; HTTP; HTTPS; SSH
Visualization	Web Visu
Programming environment	CODESYS V3.5
CPU	Cortex A7; 650 MHz
Operating system	Real-time Linux (with RT-Preempt patch)
Main memory (RAM)	512 MB
Internal memory (flash)	4096 MB
Non-volatile hardware memory	128 kB
Data memory	128 MB
Program memory	32 MB
Non-volatile software memory	128 kB
Supply voltage (system)	24 VDC (-15 ... +20 %); via wiring interface (picoMAX® 3.5; Push-in CAGE CLAMP® connection)
Supply voltage (field)	24 VDC (-15 ... +20 %); via wiring interface (picoMAX® 3.5; Push-in CAGE CLAMP® connection)
Power consumption (5 V system supply)	2000 mA
Signal type	Voltage; Resistance measurement
Number of digital inputs	8
Input characteristic	Type 3 (per EN 61131-2)
Number of digital outputs	4
Output current (per channel)	DC 500 mA
Output current	Short-circuit-protected
Voltage signal type	0 ... 10 VDC
Number of analog inputs	2
Resolution of analog inputs	16 bits
Number of analog outputs	2
Resolution of analog outputs	12 bits
Load impedance (voltage output)	≥ 5 kΩ
Number of measurement inputs	2
Temperature range	-60 °C ... 350 °C, PT1000, Ni1000
Surrounding air temperature (operation)	-25 ... 60 °C
Approvals	CE; UKCA
Approvals (pending)	OrdLoc
Data sheet and further information, see:	wago.com/751-9301
Accessories	
Memory Card SD Micro; 2 GByte	758-879/000-3102
Memory Card SD Micro; pSLC-NAND; 8 GB;	758-879/000-3108
Temperature range: -40 to 90°C	

Controller PFC200 ▶ 2 x ETHERNET, RS-232/-485, Mobile Radio Module



750-8217



Version	
Item No.	750-8217/600-000
Order Text	PFC200; 2ETH RS 4G; Global

Default	750-8217/600-000	Ext. Temperature	750-8217/625-000
	PFC200; 2ETH RS 4G; Global		PFC200; 2ETH RS 4G; Global; T

Technical Data
Communication

Modbus (TCP, UDP); ETHERNET; EtherNet/IP™ Adapter (slave), library for e!RUNTIME; Modbus® RTU; RS-232 serial interface; RS-485 serial interface; MQTT; BACnet/IP, **requires an additional license**; EtherCAT Master, **requires an additional license**; Telecontrol protocols (requires an additional license on the device)

ETHERNET protocols
Telecontrol protocols

DHCP; DNS; NTP; FTP; FTPS; SNMP; HTTP; HTTPS; SSH
IEC 60870-5-101/-103/-104 (additional license as slave or master); IEC-61850 (additional license as Client 300); DNP3 (additional license as Slave or Master 300)

Radio technology
Frequency band

GSM/Edge/UMTS/HSPA+; LTE
GSM: B2/B3/B5/B8; WCDMA: B1/B2/B4/B5/B6/B8/B19; LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/ B26/B28; LTE-TDD: B38/B39/B40/B41

Services
Security encryption
Visualization

GPRS connection to Internet
OpenVPN, IPsec, firewall
Web Visu

Programming environment
CPU

e!COCKPIT (based on CODESYS V3)
Cortex A8; 1 GHz

Operating system
Main memory (RAM)/internal memory (flash)/non-volatile memory (hardware)

Real-time Linux (with RT-Preempt patch)
512 MB / 4 GB / 128 KB

Program memory/data memory/non-volatile memory (software)

e!RUNTIME: 32 MB / 128 MB / 128 KB

Number of modules per node (max.)
Input and output (internal) process image (max.)

250
1000 words/1000 words

Input and output (MODBUS) process image (max.)
Supply voltage (system)

e!RUNTIME: 32000 words/32000 words
24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)

Supply voltage (field)
Input current (typ.) at nominal load (24 V)

24 VDC (-25 ... +30 %); via power jumper contacts
550 mA

Total current (system supply)
Surrounding air temperature (operation)

700 mA
0 ... 55 °C

Dimensions W x H x D

-20 ... 60 °C
(102.5 x 100 x 71.9) mm

Data sheet and further information, see:

wago.com/750-8217/600-000

Product extensions

Item No.	Item No.
e!RUNTIME; BACnet; 300; Single License	2759-283/211-1000
e!RUNTIME; EtherCAT Master; 300; Single License	2759-263/211-1000
e!RUNTIME; DNP3 Master; 300; Single License	2759-2293/211-1000
e!RUNTIME; IEC60870 Slave; Single License	2759-290/211-1000
e!RUNTIME; DNP3 Slave; Single License	2759-2290/211-1000
e!RUNTIME; IEC60870 Master; 300; Single License	2759-293/211-1000
e!RUNTIME; IEC61850 Client; 300; Single License	2759-2243/211-1000

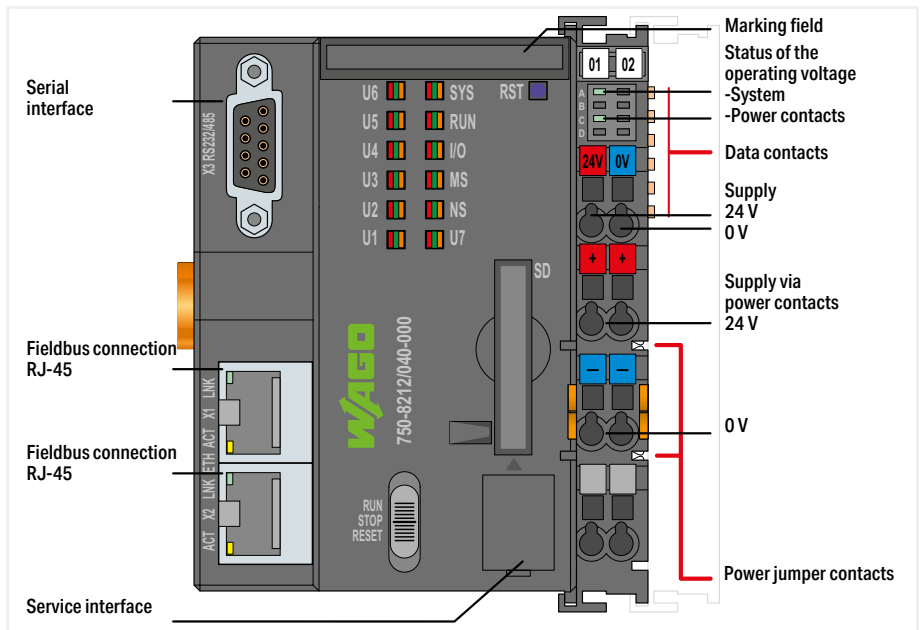
Accessories

Item No.	Item No.
Memory Card SD; SLC-NAND; 2 GByte; Temperature from -40 to 90 °C	758-879/000-001
Memory Card SD; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C	758-879/000-2108
Magnetic foot antenna; with 2.5m cable and SMA plug; GSM/ UMTS/ LTE/ Bluetooth®/ WLAN; 698-960, 1400-1518, 1710-2700 MHz	758-975

Controller PFC200 XTR ▶ 2 x ETHERNET, RS-232/-485



750-8212/040-000



Version	Extreme	Telecontrol technology; extreme
Item No.	750-8212/040-000	750-8212/040-001
Order Text	PFC200; G2; 2ETH RS; XTR	PFC200; G2; 2ETH RS; Tele; XTR

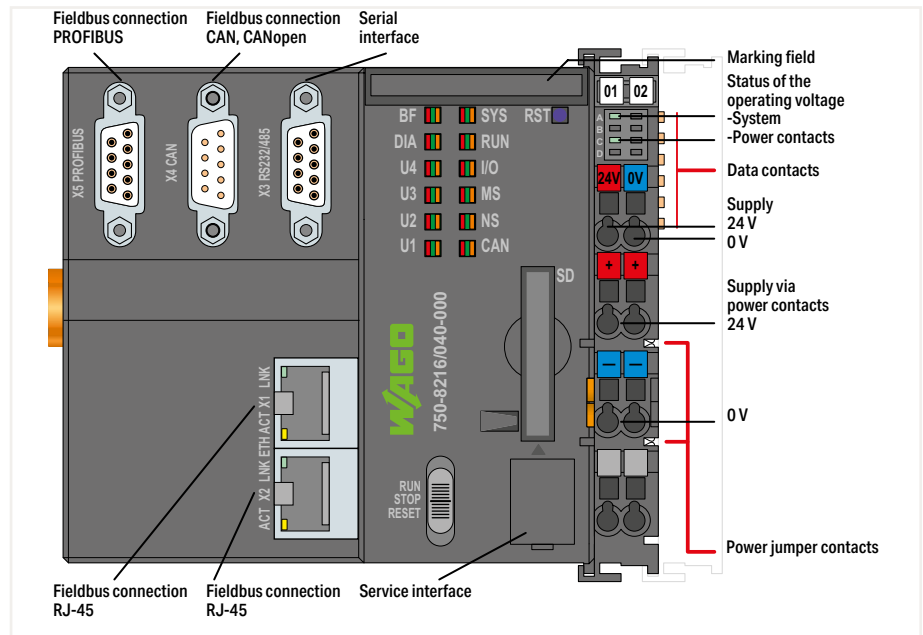
Technical Data		
Communication	Modbus (TCP, UDP); ETHERNET; EtherNet/IP™ Adapter (slave), library for e!RUNTIME ; Modbus® RTU; RS-232 serial interface; RS-485 serial interface; MQTT; EtherCAT Master, requires an additional license ; BACnet/IP, requires an additional license	Modbus (TCP, UDP); ETHERNET; EtherNet/IP™ Adapter (slave), library for e!RUNTIME ; Modbus® RTU; RS-232 serial interface; RS-485 serial interface; MQTT; EtherCAT Master, requires an additional license ; BACnet/IP, requires an additional license ; Telecontrol protocols
ETHERNET protocols	DHCP; DNS; NTP; FTP; FTPS; SNMP; HTTP; HTTPS; SSH	
Telecontrol protocols	IEC 60870-5-101/-103/-104; IEC 61400-25; IEC 61850-7; DNP3	
Visualization	Web Visu	
Programming environment	e!COCKPIT (based on CODESYS V3); WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)	
CPU	Cortex A8; 1 GHz	
Operating system	Real-time Linux (with RT-Preempt patch)	
Main memory (RAM)/internal memory (flash)/non-volatile memory (hardware)	512 MB / 4 GB / 128 KB	
Program memory/data memory/non-volatile memory (software)	CODESYS V2: 16 MB / 64 MB / 128 KB; e!RUNTIME : 32 MB / 128 MB / 128 KB	
Number of modules per node (max.)	64	
Input and output (internal) process image (max.)	1000 words/1000 words	
Input and output (MODBUS) process image (max.)	CODESYS V2: 1000 words/1000 words; e!RUNTIME : 32000 words/32000 words	
Supply voltage (system)	24 VDC; via pluggable connector (CAGE CLAMP® connection); Derating must be observed!	
Supply voltage (field)	24 VDC; Power supply via pluggable connector (CAGE CLAMP® connection); Transmission via power jumper contacts; Derating must be observed!	
Derating	Derating (supply voltage): Surrounding air temperatures under laboratory conditions: (-25 ... +30 %); for -40 ... +55 °C: 24 V (-25 ... +20 %); for +55 ... +70 °C: 24 V (-25 ... +10 %); Lower limit in all temperature ranges: -27.5 % (including 15 % residual ripple)	
Input current (typ.) at nominal load (24 V)	550 mA	
Total current (system supply)	1700 mA	
Surrounding air temperature (operation)	-40 ... 70 °C	
Dimensions W x H x D	(78.6 x 100 x 71.9) mm	
Approvals	CE	
Approvals (pending)	Marine; OrdLoc/HazLoc	
Data sheet and further information, see:	wago.com/750-8212/040-000	

Product extensions	Item No.	Item No.
e!RUNTIME; BACnet; 300; Single License	2759-283/211-1000	2759-283/211-1000
e!RUNTIME; EtherCAT Master; 300; Single License	2759-263/211-1000	2759-263/211-1000
e!RUNTIME; DNP3 Master; 300; Single License	2759-2293/211-1000	2759-2293/211-1000
e!RUNTIME; IEC60870 Slave; Single License	2759-290/211-1000	2759-290/211-1000
e!RUNTIME; DNP3 Slave; Single License	2759-2290/211-1000	2759-2290/211-1000
e!RUNTIME; IEC60870 Master; 300; Single License	2759-293/211-1000	2759-293/211-1000
e!RUNTIME; IEC61850 Client; 300; Single License	2759-2243/211-1000	2759-2243/211-1000
Accessories	Item No.	Item No.
Memory Card SD; SLC-NAND; 2 GByte; Temperature from -40 to 90 °C	758-879/000-001	758-879/000-001
Memory Card SD; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C	758-879/000-2108	758-879/000-2108

Controller PFC200 XTR ▶ 2 x ETHERNET, RS-232/-485, CAN, CANopen, PROFIBUS Slave



750-8216/040-000



Version	Extreme
Item No.	750-8216/040-000
Order Text	PFC200; G2; 2ETH RS CAN DPS; XTR
Technical Data	
Communication	PROFIBUS; Modbus (TCP, UDP); ETHERNET; CANopen; EtherNet/IP™ Adapter (slave), library for e!RUNTIME ; Modbus® RTU; RS-232 serial interface; RS-485 serial interface; MQTT; EtherCAT Master, requires an additional license ; BACnet/IP, requires an additional license
ETHERNET protocols	DHCP; DNS; NTP; FTP; FTPS; SNMP; HTTP; HTTPS; SSH
Visualization	Web Visu
Programming environment	e!COCKPIT (based on CODESYS V3); WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)
CPU	Cortex A8; 1 GHz
Operating system	Real-time Linux (with RT-Preempt patch)
Main memory (RAM)/internal memory (flash)/non-volatile memory (hardware)	512 MB / 4 GB / 128 KB
Program memory/data memory/non-volatile memory (software)	CODESYS V2: 16 MB / 64 MB / 128 KB; e!RUNTIME : 32 MB / 128 MB / 128 KB
Number of modules per node (max.)	64
Input and output (internal) process image (max.)	1000 words/1000 words
Input and output (MODBUS) process image (max.)	CODESYS V2: 1000 words/1000 words; e!RUNTIME : 32000 words/32000 words
Input and output (PROFIBUS) process image (max.)	244 bytes/244 bytes
Input and output (CAN) process image (max.)	2000 words/2000 words
Supply voltage (system)	24 VDC; via pluggable connector (CAGE CLAMP® connection); Derating must be observed!
Supply voltage (field)	24 VDC; Power supply via pluggable connector (CAGE CLAMP® connection); Transmission via power jumper contacts; Derating must be observed!
Derating	Derating (supply voltage): Surrounding air temperatures under laboratory conditions: (-25 ... +30 %); for -40 ... +55 °C: 24 V (-25 ... +20 %); for +55 ... +70 °C: 24 V (-25 ... +10 %); Lower limit in all temperature ranges: -27.5 % (including 15 % residual ripple)
Input current (typ.) at nominal load (24 V)	550 mA
Total current (system supply)	1700 mA
Surrounding air temperature (operation)	-40 ... 70 °C
Dimensions W x H x D	(112 x 100 x 71.9) mm
Approvals	CE
Approvals (pending)	Marine; OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-8216/040-000
Product extensions	
e!RUNTIME; BACnet; 300; Single License	2759-283/211-1000
e!RUNTIME; EtherCAT Master; 300; Single License	2759-263/211-1000
e!RUNTIME; DNP3 Master; 300; Single License	2759-2293/211-1000
e!RUNTIME; IEC60870 Slave; Single License	2759-290/211-1000
e!RUNTIME; DNP3 Slave; Single License	2759-2290/211-1000
e!RUNTIME; IEC60870 Master; 300; Single License	2759-293/211-1000
e!RUNTIME; IEC61850 Client; 300; Single License	2759-2243/211-1000
Accessories	
Memory Card SD; SLC-NAND; 2 GByte; Temperature from -40 to 90 °C	758-879/000-001
Memory Card SD; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C	758-879/000-2108
Item No.	
Item No.	

WAGO IoT Box; Energy Data with Controller PFC200 (750-8212)



Integrating machines and systems into the "Internet of Things" is incredibly quick and easy with the WAGO IoT Box Energy Data. This IoT Box features power and energy measurement functionality and is ready for immediate use. It also offers all the functions required for digitalization, from signal acquisition to cloud connectivity.

The IoT Box was designed as a plug-and-play device – no hardware engineering is needed. Collected data is transferred to the desired IoT application with just a few parameter settings.

The hardware includes a controller with its own communication interface, I/O modules with analog and digital inputs/outputs, a 3-phase power measurement module and a 24 V power supply unit.

Depending on the application, additional I/O modules can be added later to adapt the system to specific requirements.

Item Description	Item No.
IoT Box; Energy Data	2854-099/000-001
This IoT Box includes:	
Controller PFC200; 2nd generation; 2 x ETHERNET, RS-232/-485	750-8212
Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 2 A; NEC Class 2; DC OK signal	787-1606
8-Channel Digital Input; 24 VDC; 3 ms; 2-wire connection	750-1415
8-Channel Digital Output; 24 VDC; 0.5 A; 2-wire connection	750-1515
8-Channel Analog Input; Resistance measurement; Adjustable	750-451
4-Channel Analog Input; Voltage/current; Differential input; 16 bits; Diagnostics	750-471
3-Phase Power Measurement; 690 VAC 1 A	750-495
Rogowski Coil; Primary rated current: 4000 A; Output signal: 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor: 70 mm	855-9150/2000-701
End Module	750-600
SD Memory Card; pSLC-NAND; 8 GB Temperature range: -40 ... +90 °C	758-879/000-2108
IoT Box application (installed and licensed)	
Circuit breaker; 1-pole; C 10 A; 10 kA	
Electrical circuit breaker; 1-pole; 24 VDC; 1 ... 8 A	
Set of wall-mount lugs	
Cable grips M16; M20; M25	
Connectors (plug and socket) for power supply	

Communication	ETHERNET; RS-232 interface; RS-485 interface; MQTT
ETHERNET protocols	DHCP, DNS, FTP, FTPS, HTTP, HTTPS, SSH
Transmission rate	ETHERNET: 10/100 Mbit/s
Visualization	Web-Visu
Dimensions W x H x D	300 x 300 x 210
Power supply (AC)	230 VAC (L/N/GND); 50 Hz
Weight	7.5 kg
Color	Light gray (RAL7035)
Housing material	Metal
Conformity marking	CE
Surrounding air temperature (operation)	0 ... 45 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Protection type	IP20/IP65; (IP65 only applies when both power and LAN cables are locked)
Pollution degree	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

WAGO IoT Box; MES with Controller PFC200 (750-8212)



Integrating machines and systems into the "Internet of Things" is incredibly quick and easy with the WAGO IoT Box MES. This IoT Box also offers a wide range of communication and bus protocols for communicating with production control systems. The complete system is ready for immediate use and offers all the functions required for digitalization, from signal acquisition to cloud connectivity.

The IoT Box was designed as a plug-and-play device – no hardware engineering is needed. Collected data is transferred to the desired IoT application with just a few parameter settings.

The hardware includes a controller with its own communication interface, I/O modules with analog and digital inputs/outputs and a 24 V power supply unit.

Depending on the application, additional I/O modules can be added later to adapt the system to specific requirements.

Manufacturing Execution Systems (MES)

Item Description	Item No.
IoT Box; MES	2854-099/000-002

This IoT Box includes:

Controller PFC200; 2nd generation; 2 x ETHERNET, RS-232/-485	750-8212
Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 2 A; NEC Class 2; DC OK signal	787-1606
8-Channel Digital Input; 24 VDC; 3 ms; 2-wire connection	750-1415
8-Channel Digital Output; 24 VDC; 0.5 A; 2-wire connection	750-1515
8-Channel Analog Input; resistance measurement; adjustable	750-451
4-Channel Analog Input; Voltage/current; Differential input; 16 bits; Diagnostics	750-471
End Module	750-600
SD Memory Card; pSLC-NAND; 8 GB Temperature range: -40 ... +90 °C	758-879/000-2108
Energy Data Management (EDM) application (installed and licensed)	
Circuit breaker; 1-pole; C 10 A; 10 kA	
Electrical circuit breaker; 1-pole; 24 VDC; 1 ... 8 A	
Set of wall-mount lugs	
Cable grips M16; M20; M25	
Connectors (plug and socket) for power supply	

Communication	ETHERNET; Modbus (TCP, UDP); Modbus RTU; RS-232 interface; RS-485 interface; MQTT
ETHERNET protocols	DHCP, DNS, FTP, FTPS, HTTP, HTTPS, SSH
Transmission rate	ETHERNET: 10/100 Mbit/s
Visualization	Web-Visu
Dimensions W x H x D	300 x 300 x 210
Power supply (AC)	230 VAC (L/N/GND); 50 Hz
Weight	7.5 kg
Color	Light gray (RAL7035)
Housing material	Metal
Conformity marking	CE
Surrounding air temperature (operation)	0 ... 45 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Protection type	IP20/IP65; (IP65 only applies when both power and LAN cables are locked)
Pollution degree	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

WAGO IoT Box; Energy Data 4G with Controller PFC200 (750-8217)



Integrating machines and systems into the "Internet of Things" is incredibly quick and easy with the WAGO IoT Box Energy Data 4G.

This IoT Box features power and energy measurement functionality and is ready for immediate use. It also offers all the functions required for digitalization, from signal acquisition to cloud connectivity.

The IoT Box was designed as a plug-and-play device – no hardware engineering is needed. Collected data is transferred to the desired IoT application with just a few parameter settings.

The hardware includes a controller with its own communication interface, I/O modules with analog and digital inputs/outputs, a 3-phase power measurement module and a 24 V power supply unit.

The integrated 4G cellular modem provides a wireless connection to the Internet and includes a radio license for EU countries.

Depending on the application, additional I/O modules can be added later to adapt the system to specific requirements.

Item Description	Item No.
IoT Box; Energy Data 4G	2854-099/000-003
This IoT Box includes:	
Controller PFC200; 2nd generation; 2 x ETHERNET, RS-232/-485, 4G cellular module	750-8217
Magnetic-Mount Antenna; with 2.5 m cable and SMA plug; GSM/UMTS/LTE/Bluetooth®/WLAN; 698-960, 1400-1518, 1710-2700 MHz	758-975
Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 2 A; NEC Class 2; DC OK signal	787-1606
8-Channel Digital Input; 24 VDC; 3 ms; 2-wire connection	750-1415
8-Channel Digital Output; 24 VDC; 0.5 A; 2-wire connection	750-1515
8-Channel Analog Input; Resistance measurement; Adjustable	750-451
4-Channel Analog Input; Voltage/current; Differential input; 16 bits; Diagnostics	750-471
3-Phase Power Measurement; 690 VAC 1 A	750-495
Rogowski Coil; Primary rated current: 4000 A; Output signal: 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor: 70 mm	855-9150/2000-701
End Module	750-600
SD Memory Card; pSLC-NAND; 8 GB Temperature range: -40 ... +90 °C	758-879/000-2108
IoT Box application (installed and licensed)	
Circuit breaker; 1-pole; C 10 A; 10 kA	
Electrical circuit breaker; 1-pole; 24 VDC; 1 ... 8 A	
Set of wall-mount lugs	
Cable grips M16; M20; M25	
Connectors (plug and socket) for power supply	

Communication	ETHERNET; RS-232 interface; RS-485 interface; MQTT
ETHERNET protocols	DHCP, DNS, FTP, FTPS, HTTP, HTTPS, SSH
Transmission rate	ETHERNET: 10/100 Mbit/s
Visualization	Web-Visu
Services	GPRS connection to Internet
Wireless technology	GSM/UMTS/LTE
Frequency band	GSM dual band (B3; B8); E-UTRA bands (B1; B3; B5; B7; B8; B20; B38; B40; B41)
Dimensions W x H x D	300 x 300 x 210
Power supply (AC)	230 VAC (L/N/GND); 50 Hz
Weight	7.5 kg
Color	Light gray (RAL7035)
Housing material	Metal
Conformity marking	CE
Surrounding air temperature (operation)	0 ... 45 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Protection type	IP20/IP65; (IP65 only applies when both power and LAN cables are locked)
Pollution degree	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

WAGO IoT Box; MES 4G with Controller PFC200 (750-8217)



Integrating machines and systems into the "Internet of Things" is incredibly quick and easy with the WAGO IoT Box MES 4G. This IoT Box also offers a wide range of communication and bus protocols for communicating with production control systems. The complete system is ready for immediate use and offers all the functions required for digitalization, from signal acquisition to cloud connectivity.

The IoT Box was designed as a plug-and-play device – no hardware engineering is needed. Collected data is transferred to the desired IoT application with just a few parameter settings.

The hardware includes a controller with its own communication interface, I/O modules with analog and digital inputs/outputs and a 24 V power supply unit.

The integrated 4G cellular modem provides a wireless connection to the Internet and includes a radio license for EU countries.

Depending on the application, additional I/O modules can be added later to adapt the system to specific requirements.

Manufacturing Execution Systems (MES)

Item Description	Item No.
IoT Box; MES 4G	2854-099/000-004

This IoT Box includes:

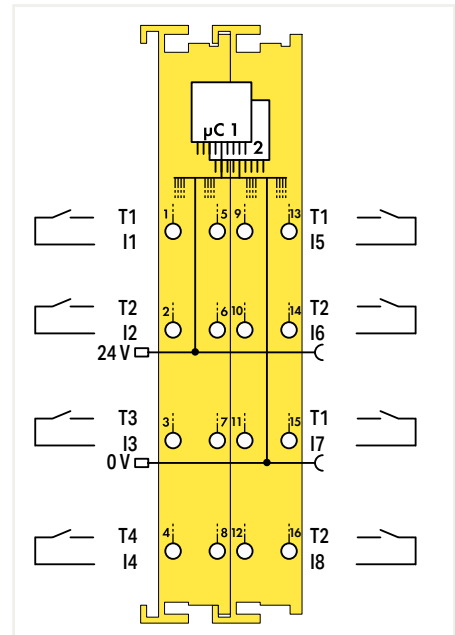
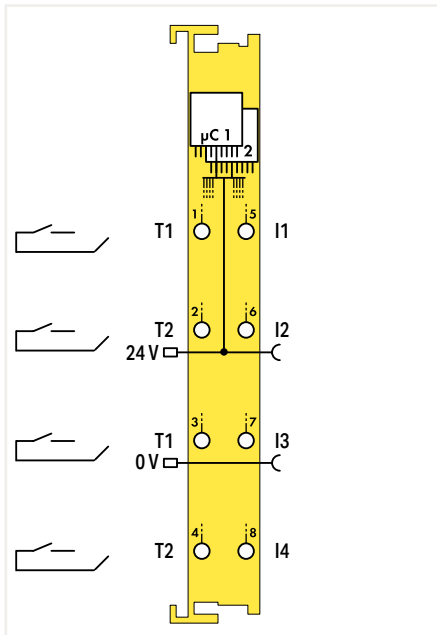
Controller PFC200; 2nd generation; 2 x ETHERNET, RS-232/-485, 4G cellular module	750-8217
Magnetic-Mount Antenna; with 2.5 m cable and SMA plug; GSM/UMTS/LTE/Bluetooth®/WLAN; 698-960, 1400-1518, 1710-2700 MHz	758-975
Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 2 A; NEC Class 2; DC OK signal	787-1606
8-Channel Digital Input; 24 VDC; 3 ms; 2-wire connection	750-1415
8-Channel Digital Output; 24 VDC; 0.5 A; 2-wire connection	750-1515
8-Channel Analog Input; Resistance Measurement; Adjustable	750-451
4-Channel Analog Input; Voltage/current; Differential input; 16 bits; Diagnostics	750-471
End Module	750-600
SD Memory Card; pSLC-NAND; 8 GB Temperature range: -40 ... +90 °C	758-879/000-2108
Energy Data Management (EDM) application (installed and licensed)	
Circuit breaker; 1-pole; C 10 A; 10 kA	
Electrical circuit breaker; 1-pole; 24 VDC; 1 ... 8 A	
Set of wall-mount lugs	
Cable grips M16; M20; M25	
Connectors (plug and socket) for power supply	

Communication	ETHERNET; Modbus (TCP, UDP); Modbus RTU; RS-232 interface; RS-485 interface; MQTT
ETHERNET protocols	DHCP, DNS, FTP, FTPS, HTTP, HTTPS, SSH
Transmission rate	ETHERNET: 10/100 Mbit/s
Visualization	Web-Visu
Services	GPRS connection to Internet
Wireless technology	GSM/UMTS/LTE
Frequency band	GSM dual band (B3; B8); E-UTRA bands (B1; B3; B5; B7; B8; B20; B38; B40; B41)
Dimensions W x H x D	300 x 300 x 210
Power supply (AC)	230 VAC (L/N/GND); 50 Hz
Weight	7.5 kg
Color	Light gray (RAL7035)
Housing material	Metal
Conformity marking	CE
Surrounding air temperature (operation)	0 ... 45 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Protection type	IP20/IP65; (IP65 only applies when both power and LAN cables are locked)
Pollution degree	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

Functional safety ▶ Digital input



750-661/000-004



Item Description
Version
Item No.
Order Text

Fail-safe 4-channel digital input; 24 VDC; PROFIsafe	
Default	Pluggable
750-661/000-004	753-661/000-004
4FDI 24V PROFIsafe	4FDI 24V PROFIsafe

Fail-safe 8-channel digital input; 24 VDC; PROFIsafe	
Default	Pluggable
750-662/000-004	753-662/000-004
8FDI 24V PROFIsafe	8FDI 24V PROFIsafe

Technical Data	
Wiring interface	
Number of digital inputs	
Achievable safety classes	
Interface types according to ZVEI (Inputs)	
Protocol	
Configuration options	
Input characteristic	
Input characteristic	
Input current per channel for signal (1) (typ.)	
Signal frequency (max.)	
Output current per channel	
Supply voltage (field)	
Power consumption (5 V system supply)	
Surrounding air temperature (operation)	
Dimensions W x H x D	
Functional Safety	
Safety standards	
Approvals	
Approvals (pending)	
Data sheet and further information, see:	

	Fixed	Pluggable
Number of digital inputs	4	
Achievable safety classes	SIL 3; Category 4, PLe (two-channel); SIL 2; Category 2; PLd (one-channel)	
Interface types according to ZVEI (Inputs)	sink; A, C0, C1, C2, C3	
Protocol	PROFIsafe V2.6 (PROFINET)	
Configuration options	PROFIsafe address adjustable via DIP switch or engineering software	
Input characteristic	Clock sensitive	
Input characteristic	Type 1 per IEC 61131	
Input current per channel for signal (1) (typ.)	2.2 mA	
Signal frequency (max.)	50 Hz	
Output current per channel	0.1 A	
Supply voltage (field)	24 VDC, SELV/PELV (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)	
Power consumption (5 V system supply)	110 mA	
Surrounding air temperature (operation)	0 ... 55 °C	
Dimensions W x H x D	(12 x 100 x 67.8) mm	
Functional Safety		
Safety standards	IEC 61508-1 ... -7; EN ISO 13849-1; EN 62061	
Approvals	CE	
Approvals (pending)	Marine; OrdLoc/HazLoc; ATEX/IECEX	
Data sheet and further information, see:	wago.com/750-661/000-004	wago.com/753-661/000-004

	Fixed	Pluggable
Number of digital inputs	8	
Achievable safety classes	SIL 3; Category 4, PLe (two-channel); SIL 2; Category 2; PLd (one-channel)	
Interface types according to ZVEI (Inputs)	sink; A, C0, C1, C2, C3	
Protocol	PROFIsafe V2.6 (PROFINET)	
Configuration options	PROFIsafe address adjustable via DIP switch or engineering software	
Input characteristic	Clock sensitive	
Input characteristic	Type 1 per IEC 61131	
Input current per channel for signal (1) (typ.)	2.2 mA	
Signal frequency (max.)	50 Hz	
Output current per channel	0.1 A	
Supply voltage (field)	24 VDC, SELV/PELV (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)	
Power consumption (5 V system supply)	120 mA	
Surrounding air temperature (operation)	0 ... 55 °C	
Dimensions W x H x D	(24 x 100 x 67.8) mm	
Functional Safety		
Safety standards	IEC 61508-1 ... -7; EN ISO 13849-1; EN 62061	
Approvals	CE	
Approvals (pending)	Marine; OrdLoc/HazLoc; ATEX/IECEX	
Data sheet and further information, see:	wago.com/750-662/000-004	wago.com/753-662/000-004

Accessories
Plug; Safety

Item No.	Item No.
	753-120

Support for iPar servers allows automatic parameter restoration when replacing an I/O module.

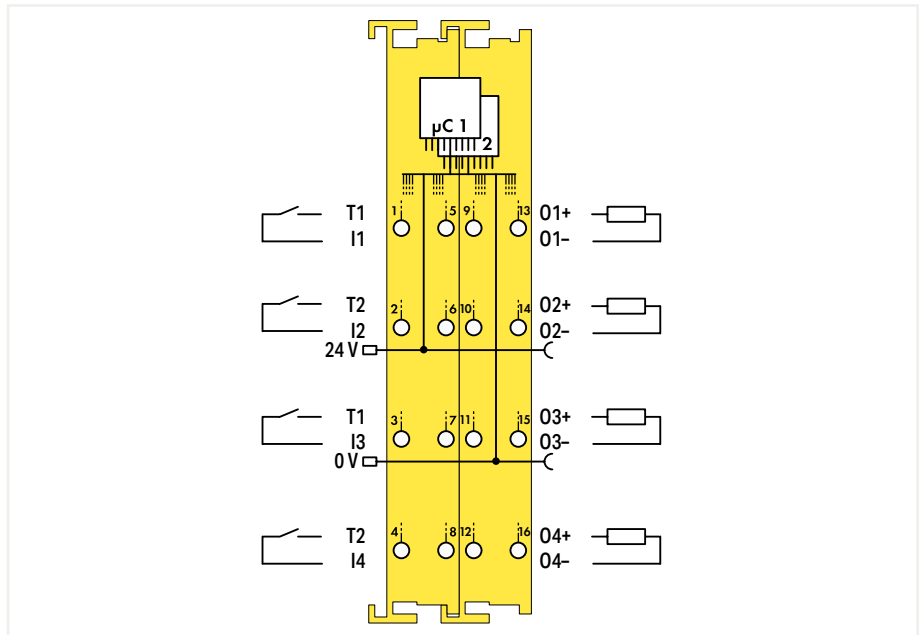
Item No.	Item No.
	753-120

Support for iPar servers allows automatic parameter restoration when replacing an I/O module.

Functional safety ▶ Digital input; Digital output



750-667/000-004



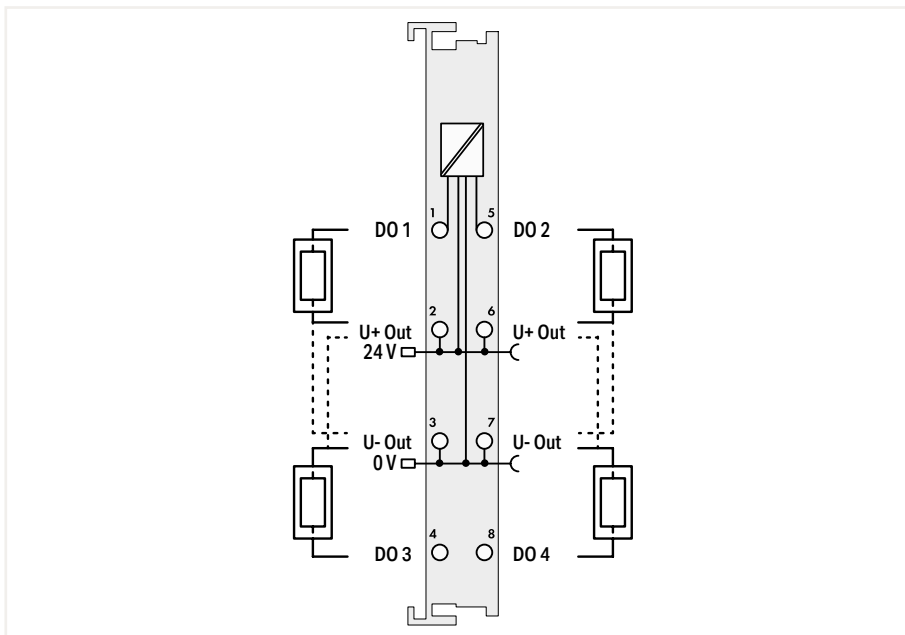
Item Description	Fail-safe 4/4 channel digital input/output; 24 VDC; 2 A; PROFIsafe	
Version	Default	Pluggable
Item No.	750-667/000-004	753-667/000-004
Order Text	4FDI/4FDO 24V/2A PROFIsafe	4FDI/4FDO 24V/2A PROFIsafe
Technical Data	Fixed	Pluggable
Wiring interface		
Number of digital inputs	4	
Achievable safety classes	SIL 3; Category 4, PL _E (two-channel); SIL 2; Category 2; PL _d (one-channel)	
Interface types according to ZVEI (Inputs)	sink; A, C0, C1, C2, C3	
Protocol	PROFIsafe V2.6 (PROFINET)	
Configuration options	PROFIsafe address adjustable via DIP switch or engineering software	
Sensor connection	4 x (Fail-safe input with test pulse)	
Input characteristic	Clock sensitive	
Input characteristic	Type 1 per IEC 61131	
Input current per channel for signal (1) (typ.)	2.2 mA	
Signal frequency (max.)	50 Hz	
Number of digital outputs	4	
Interface types according to ZVEI (Outputs)	source; C0, C1, C2, C3, D0, D1, D2, D3	
Output circuit design	Power outputs	
Actuator connection	4 x (Fail-safe output with test pulse)	
Output current per channel	2 A	
Output current	Short-circuit-protected	
Output current (module)	8 A	
Capacitive load for each channel	O1 ... O4; 47 µF	
Switching frequency (max.)	50 Hz; Resistive load	
Switching frequency (max.) (2)	0.1 Hz; Inductive load	
Supply voltage (field)	24 VDC, SELV/PELV (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)	
Power consumption (5 V system supply)	120 mA	
Surrounding air temperature (operation)	0 ... 55 °C	
Dimensions W x H x D	(24 x 100 x 67.8) mm	
Functional Safety		
Safety standards	IEC 61508-1 ... -7; EN ISO 13849-1; EN 62061	
Approvals	CE	
Approvals (pending)	Marine; OrdLoc/HazLoc; ATEX/IECEx	
Data sheet and further information, see:	wago.com/750-667/000-004	wago.com/753-667/000-004
Accessories	Item No.	Item No.
Plug; Safety		753-120

Support for iPar servers allows automatic parameter restoration when replacing an I/O module.

Function and technology modules ▶ Pulse Width Outputs



750-677



Item Description	4-Channel Pulse Width Outputs; 24 VDC; 0.2 A; 20 kHz
Version	Default
Item No.	750-677
Order Text	4PWM; 24 VDC; 0.2A; 20kHz
Technical Data	
Number of digital outputs	4
Pulse frequency	0 ... 20,000 Hz; integer
Duty cycle	0 ... 100 %; 11-bit resolution
Output current per channel	0.2 A
Output current	short-circuit-protected; 0.4 A, short-circuit-protected in bridge mode
Switching frequency (max.)	20 kHz
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Power consumption (5 V system supply)	85 mA
Data width	4 x 16-bit data; 4 x 8-bit control/status
Operating mode	1: PWM DC (variable duty cycle); 2: PWM Frq (variable frequency); 3: PWM Frq - Cnt; 4: Pulse Frq - Cnt; 5: PWM Pulse - Dir
Isolation	500 V system/field
Surrounding air temperature (operation)	0 ... 55 °C
Dimensions W x H x D	(12 x 100 x 67.8) mm
Approvals	CE
Approvals (pending)	Marine; OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-677

This module outputs separately adjustable PWM signals at four channels. The channels can be individually configured as LSS (low-side switching) or HSS (high-side switching) and are short-circuit protected. The PWM signals are each 16 bits wide.

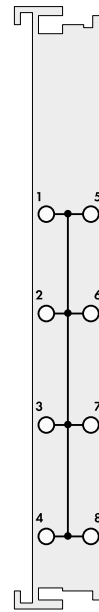
The module supports five operating modes. In both "PWM DC" and "PWM Frq" operating modes, all four channels may be used independently. The bridge mode can also be activated if the same operating mode is set on each channel pair (1 and 2 or 3 and 4). Both channels work synchronously and can be connected in parallel. In the other three complex operating modes, two channels functionally correlate with each other. The first channel outputs the PWM signal and the second channel a static signal ("0" or "1").

Refer to the manual ("Operating Modes" section) for all setting options and the bit signification in the process image. The "PWM DC" operating mode is set by default.

Supply and segment modules ► Bus end module



750-600/000-001



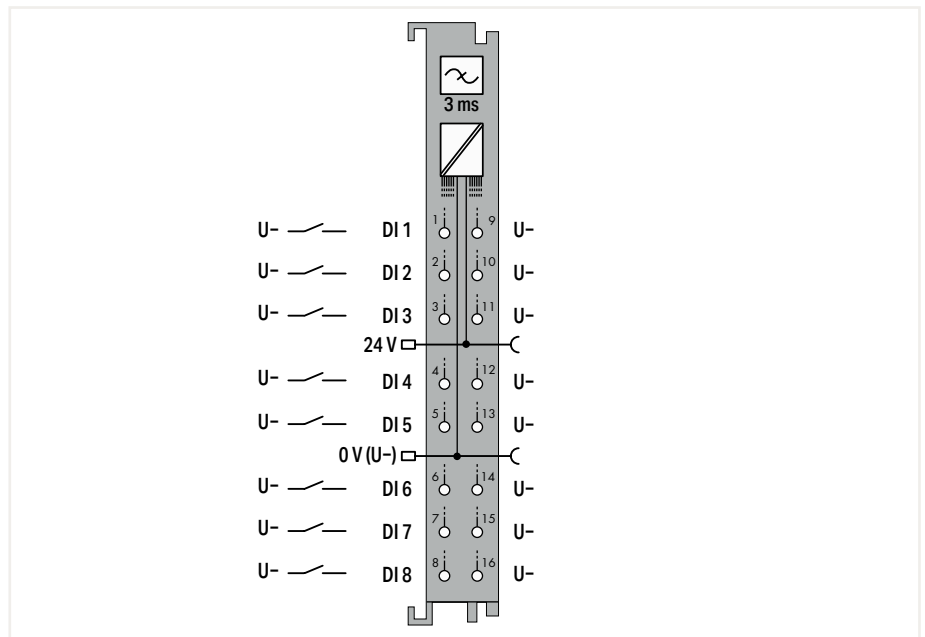
Item Description	End Module; with Potential Group
Version	Default
Item No.	750-600/000-001
Order Text	End Module; with Potential Group
Technical Data	
Supply voltage (system)	5 VDC; via data contacts
Spannung an der Potentialgruppe	0 ... 230 VAC/DC; power supply via CAGE CLAMP® connectors
Rated surge voltage	5 kV (EN 60870-2-1 / class VW3), or 6.4 kV (EN 61010-1)
Surrounding air temperature (operation)	0 ... 55 °C
Dimensions W x H x D	(12 x 100 x 67.8) mm
Approvals	CE
Approvals (pending)	Marine; OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-600/000-001

An end module must be snapped onto the assembly at the end of a fieldbus node.
 In addition, the 8 CAGE CLAMP® connections are brought together as a potential group.
 The end module completes the internal data bus, while providing correct data transmission.

Digital input



750-1417/040-000

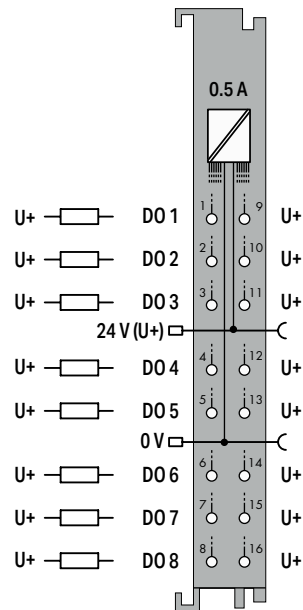


Item Description	8-Channel Digital Input; 24 VDC; 3 ms; Low-Side Switching; 2-Wire Connection
Version	Extreme with 16 connectors
Item No.	750-1417/040-000
Order Text	8DI; 24 VDC; 3ms; LSS; 2-wire; XTR
Technical Data	
Number of digital inputs	8
Signal type	Voltage
Voltage signal type	24 VDC
Voltage range for signal (0)	($U_V - 5\text{ V}$) ... U_V DC
Voltage range for signal (1)	-3 VDC ... ($U_V - 15\text{ V}$)
Sensor connection	8 x (2-wire)
Input characteristic	Low-side switching
Input filter (digital)	3 ms
Input current per channel for signal (0) (typ.)	2.4 mA
Dielectric strength	510 VAC/775 VDC; per EN 60870-2-1
Supply voltage (sensor)	24 VDC
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact); Derating must be observed!
Derating	Derating (supply voltage): Surrounding air temperatures under laboratory conditions: (-25 ... +30 %); for -40 ... +55 °C: 24 V (-25 ... +20 %); for +55 ... +70 °C: 24 V (-25 ... +10 %); Lower limit in all temperature ranges: -27.5 % (including 15 % residual ripple)
Power consumption (5 V system supply)	12 mA
Rated surge voltage	1 kV
Input data width (internal) (max.)	8 bits
Surrounding air temperature (operation)	-40 ... 70 °C
Dimensions W x H x D	(12 x 100 x 69) mm
Approvals	CE
Approvals (pending)	Marine; OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-1417/040-000

Digital output



750-1516/040-000

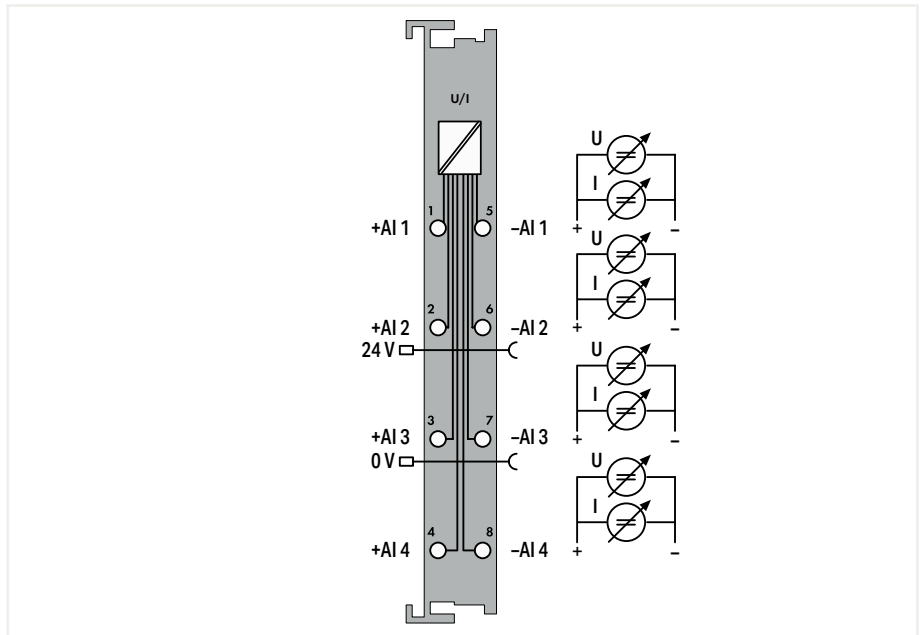


Item Description	8-Channel Digital Output; 24 VDC; 0.5 A; Low-Side Switching; 2-Wire Connection
Version	Extreme with 16 connectors
Item No.	750-1516/040-000
Order Text	8DO 24 VDC 0.5A LSS 2-wire XTR
Technical Data	
Number of digital outputs	8
Signal type	Voltage
Voltage signal type	24 VDC
Output characteristic	Low-side switching
Output current per channel	0.5 A
Output current	Short-circuit-protected
Load type	Resistive, inductive, lamp load
Actuator connection	8 x (2-wire)
Switching frequency (max.)	1 kHz
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact); Derating must be observed!
Derating	Derating (supply voltage): Surrounding air temperatures under laboratory conditions: (-25 ... +30 %); for -40 ... +55 °C: 24 V (-25 ... +20 %); for +55 ... +70 °C: 24 V (-25 ... +10 %); Lower limit in all temperature ranges: -27.5 % (including 15 % residual ripple)
Power consumption, field supply (module with no external load)	8 mA
Power consumption (5 V system supply)	20 mA
Output (internal) data width (max.)	8 bits
Rated surge voltage	1 kV
Surrounding air temperature (operation)	-40 ... 70 °C
Dimensions W x H x D	(12 x 100 x 69) mm
Approvals	CE
Approvals (pending)	Marine; OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-1516/040-000

Analog input



750-471/040-000

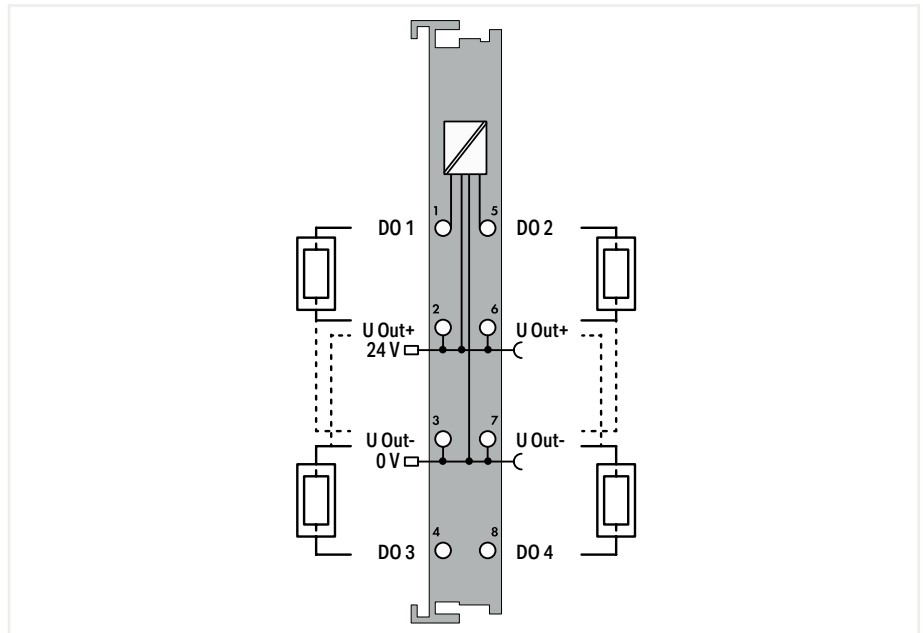


Item Description	4-Channel Analog Input; for Voltage/Current
Version	Extreme
Item No.	750-471/040-000
Order Text	4AI U/I Diff Galv XTR
Technical Data	
Number of analog inputs	4
Signal type	Current; Voltage
Signal type (current)	0 ... 20 mADC; 4 ... 20 mADC; 3.6 ... 21 mADC; -20 ... +20 mADC
Voltage signal type	0 ... 10 VDC; -10 ... +10 VDC; -0.2 ... +0.2 VDC
Signal characteristic	Differential
Sensor connection	4 x (2-wire)
Resolution [bit]	16 bits
Conversion time (typ.)	5 ms
Input resistance (max.)	130 Ω
Internal resistance	100 kΩ
Reference for measurement error	Input ranges
Measurement error (reference temperature)	25 °C
Measurement error – deviation (max.) from the upper-range value	0.1 %
Reference for measurement error (2)	±200 mV
Measurement error, reference temperature (2)	25 °C
Measurement error, deviation (max.) of the upper-range value (2)	0.2 %
Temperature error (max.) of the upper-range value	0.01 %/K
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact); Derating must be observed!
Derating	Derating (supply voltage): Surrounding air temperatures under laboratory conditions: (-25 ... +30 %); for -40 ... +55 °C: 24 V (-25 ... +20 %); for +55 ... +70 °C: 24 V (-25 ... +10 %); Lower limit in all temperature ranges: -27.5 % (including 15 % residual ripple)
Power consumption (5 V system supply)	100 mA
Data width	4 x 16-bit data; 4 x 8-bit control/status (optional)
Isolation	Functional insulation: 2,000 VDC system/channel; 2,000 VDC channel/channel
Surrounding air temperature (operation)	-40 ... 70 °C
Dimensions W x H x D	(12 x 100 x 67.8) mm
Approvals	CE
Approvals (pending)	Marine; OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-471/040-000

Pulse Width Outputs



750-677/040-000



Item Description	4-Channel Pulse Width Outputs; 24 VDC; 0.2 A; 20 kHz
Version	Extreme
Item No.	750-677/040-000
Order Text	4PWM; 24 VDC; 0.2A; 20kHz; XTR
Technical Data	
Number of digital outputs	4
Pulse frequency	0 ... 20,000 Hz; integer
Duty cycle	0 ... 100 %; 11-bit resolution
Output current per channel	0.2 A
Output current	short-circuit-protected; 0.4 A, short-circuit-protected in bridge mode
Switching frequency (max.)	20 kHz
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact); Derating must be observed!
Derating	Derating (supply voltage): Surrounding air temperatures under laboratory conditions: (-25 ... +30 %); for -40 ... +55 °C: 24 V (-25 ... +20 %); for +55 ... +70 °C: 24 V (-25 ... +10 %); Lower limit in all temperature ranges: -27.5 % (including 15 % residual ripple)
Power consumption (5 V system supply)	85 mA
Rated surge voltage	1 kV
Data width	4 x 16-bit data; 4 x 8-bit control/status
Operating mode	1: PWM DC (variable duty cycle); 2: PWM Frq (variable frequency); 3: PWM Frq - Cnt; 4: Pulse Frq - Cnt; 5: PWM Pulse - Dir
Surrounding air temperature (operation)	-40 ... 70 °C
Dimensions W x H x D	(12 x 100 x 67.8) mm
Approvals	CE
Approvals (pending)	Marine; OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-677/040-000

This module outputs separately adjustable PWM signals at four channels. The channels can be individually configured as LSS (low-side switching) or HSS (high-side switching) and are short-circuit protected. The PWM signals are each 16 bits wide.

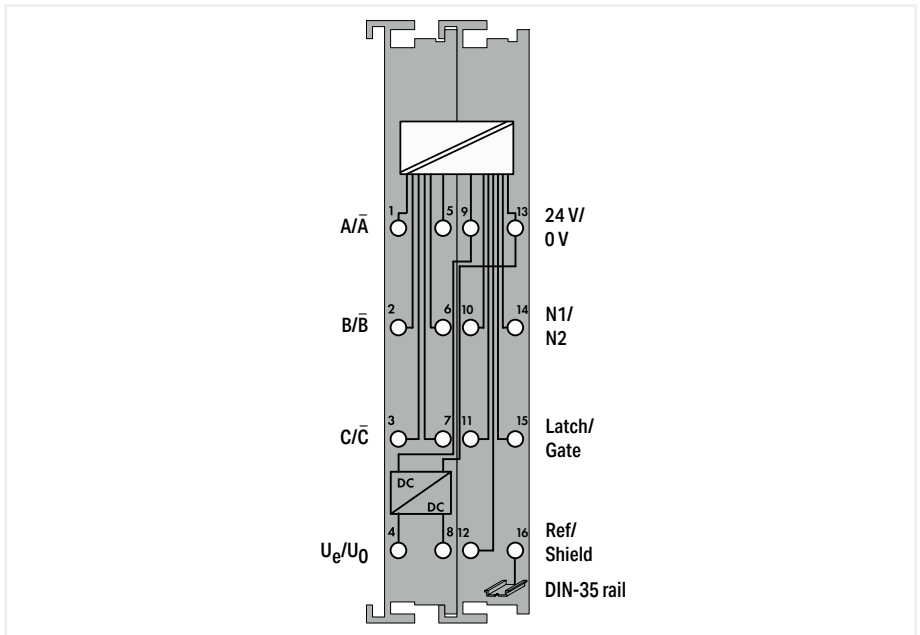
The module supports five operating modes. In both "PWM DC" and "PWM Frq" operating modes, all four channels may be used independently. The bridge mode can also be activated if the same operating mode is set on each channel pair (1 and 2 or 3 and 4). Both channels work synchronously and can be connected in parallel. In the other three complex operating modes, two channels functionally correlate with each other. The first channel outputs the PWM signal and the second channel a static signal ("0" or "1").

Refer to the manual ("Operating Modes" section) for all setting options and the bit signification in the process image. The "PWM DC" operating mode is set by default.

Distance and angle measurement



750-637/040-000

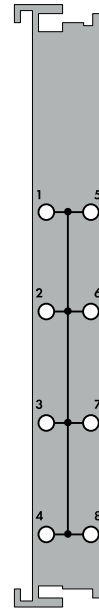


Item Description	Incremental Encoder Interface; RS-422; 32 Bits
Version	Extreme
Item No.	750-637/040-000
Order Text	Inc. Encoder; RS422; 32Bit; XTR
Technical Data	
Transmitter connection	A; /A; B; /B; C; /C (RS-422 inputs)
Counter depth	32 bits
Limit frequency	250 kHz
Quadrature decoder	4x evaluation
Zero impulse (latch)	32 bits
Commands	Reading, setting, activating
Supply voltage (transmitter)	5 VDC
Output voltage	24 VDC
Output current per channel	0.5 A
Output current	Short-circuit-protected
Voltage range for signal (0)	U_{ABC} = RS-422; Latch, gate, ref.: -3 ... +5 VDC
Voltage range for signal (1)	U_{ABC} = RS-422; Latch, gate, ref.: 15 ... 30 VDC
Input current (typ.)	Latch 7 mA, Gate 7 mA, Ref. 7 mA
Power consumption, field supply (module with no external load)	35 mA
Power consumption (5 V system supply)	110 mA
Rated surge voltage	1 kV
Data width	1 x 32-bit data 2 x 8-bit control/status
Surrounding air temperature (operation)	-40 ... 70 °C
Dimensions W x H x D	(24 x 100 x 67.8) mm
Approvals	CE
Approvals (pending)	Marine; OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-637/040-000

Bus end module



750-600/040-001



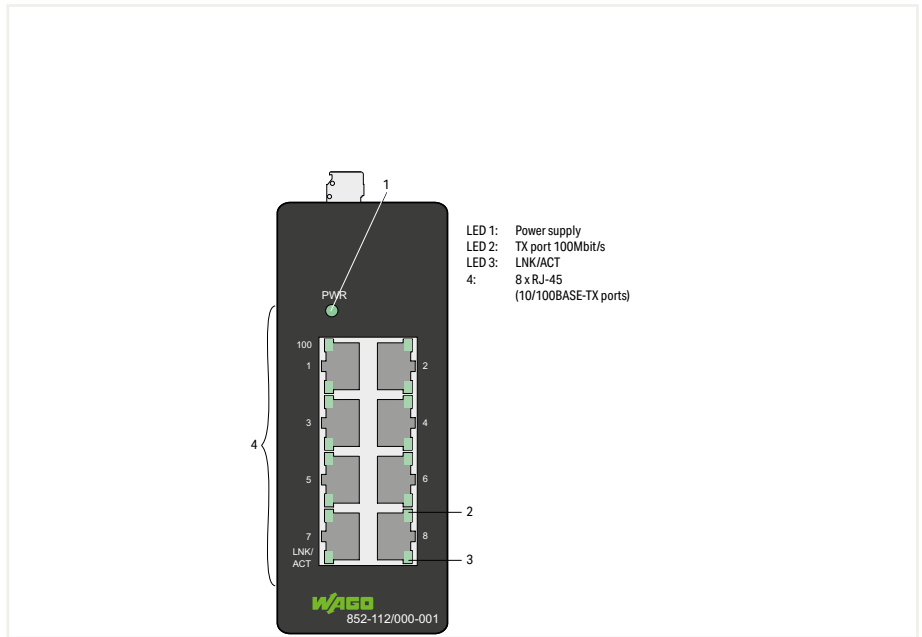
Item Description	End Module; with Potential Group
Version	Extreme
Item No.	750-600/040-001
Order Text	End Module; with Potential Group; XTR
Technical Data	
Supply voltage (system)	5 VDC; via data contacts
Spannung an der Potentialgruppe	0 ... 230 VAC/DC; power supply via CAGE CLAMP® connectors
Rated surge voltage	5 kV (EN 60870-2-1 / class VW3), or 6.4 kV (EN 61010-1)
Surrounding air temperature (operation)	-40 ... 70 °C
Dimensions W x H x D	(12 x 100 x 67.8) mm
Approvals	CE
Approvals (pending)	☞ Marine; ☞ OrdLoc/HazLoc
Data sheet and further information, see:	wago.com/750-600/040-001

An end module must be snapped onto the assembly at the end of a fieldbus node.
In addition, the 8 CAGE CLAMP® connections are brought together as a potential group.
The end module completes the internal data bus, while providing correct data transmission.

Industrial ECO switch ▶ 8 Ports 100BASE-TX

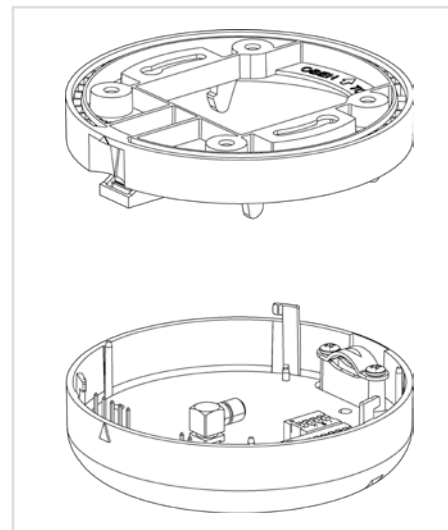
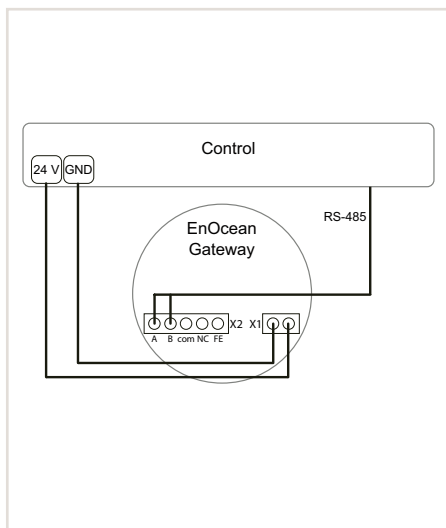


852-112/000-001



Item No.	852-112/000-001
Order Text	Industrial-Eco-Switch; 8Port
Technical Data	
Switching mode	Store-and-forward; non-blocking
Number of copper ports	8 x 100BASE-TX (RJ-45)
Communication standards	IEEE 802.3 10BASE-T; IEEE 802.3u 100BASE-TX; IEEE 802.3x Flow Control
Topology	Star
Supply voltage	12 ... 48 VDC
Power consumption (max.)	2 W
Connection technology: communication/fieldbus	Copper cable: 8 x RJ-45
Surrounding air temperature (operation)	-40 ... 70 °C
Approvals	CE; OrdLoc
Data sheet and further information, see:	wago.com/852-112/000-001

EnOcean® RS-485 Gateway; 868 MHz



Item Description

Item No.

Technical Data

Wireless technology	EnOcean®
Frequency band	868 MHz
Transmission range	Approx. 30 m within buildings; >100 m in open space
Antenna	Internal (external antenna optional via SMA socket)
Interface	RS-485
Protocol	ESP3, Modbus®
Transmission rate	9600 ... 115200 Baud
Data width	50 bytes
Cable length	100 m (max.)
Power supply	24 VDC (-25 ... +30 %)
Input current	2 A (max.)
Connection technology	RS-485 connection: 5-pole 2-conductor compact PCB connectors with PUSH WIRE® (252-155 is included) Supply connection: 2-pole 2-conductor compact PCB connectors with PUSH WIRE® (252-152 is included) Antenna: SMA socket for external antenna
Conductor cross-section	Solid: 0.4 ... 0.8 mm ² / 26 ... 20 AWG
Strip length	6 ... 7 mm
Dimensions (mm) Diameter x Height	95 x 36
Weight	103 g
Protection type	IP30 (front side)
Surrounding air temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-20 ... +85 °C
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-3 + A1
Approvals	CE
Data sheet and additional information, see:	wago.com/750-940

EnOcean® RS-485 Gateway; 868 MHz

750-940

The EnOcean® RS-485 Gateway integrates maintenance-free, battery-free and wireless sensors/actuators based on EnOcean® wireless technology (ISO/IEC 14543-3-1x) into intelligent control systems such as the WAGO I/O System.

This gateway communicates with the remote station via RS-485 interface and ESP3 telegrams (EnOcean®) or via Modbus® protocol.

It may be mounted directly to the ceiling or wall. The device can also be mounted on a DIN-rail via an integrated adapter.

The gateway has an internal antenna and also has a connector for an optional external antenna.



WAGO Power Supplies

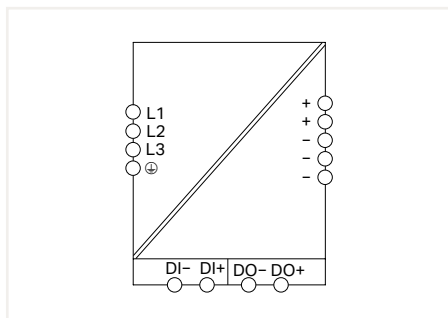
WAGO Power Supplies



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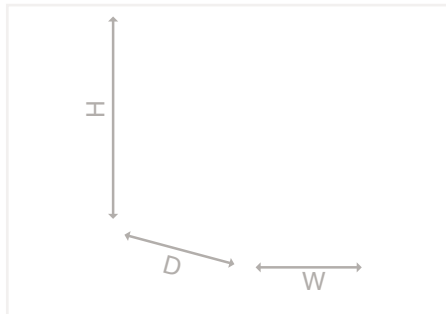
Products highlighted in RED are new items for Autumn 2021

Switched-Mode Power Supply; Pro 2; 3-Phase; 24 VDC / 20 A 2787 Series



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability

	Item No.	Pack. Unit
	2787-2347/000-030	1
Protective coating	2787-2347/000-070	1



Features:

- Power supply unit with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output; optical status indication, function buttons
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input

Nominal input voltage $U_{i, \text{nom}}$	(2/3) x 400 ... 500 VAC
Input voltage range	(2/3) x 340 ... 550 VAC; 480 ... 780 VDC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 3 \times 0.8 \text{ A}$ (400 VAC; 20 ADC)
Inrush current	$\leq 15 \text{ A}$ (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	$\geq 20 \text{ ms}$ (3 x 400 VAC)

Output

Nominal output voltage $U_{o, \text{nom}}$ /adjustment accuracy	24 VDC (SELV) / $\leq 1 \%$
Output voltage range	24 ... 28 VDC (adjustable)
Nominal output current $I_{o, \text{nom}}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	$\leq 70 \text{ mV}$ (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)

Signaling and Communication

Signaling	Optical status indication (DC-OK; load; warning and error states); digital signal input and output; (DI/DO)
Communication	Communication interface; can be used with WAGO USB communication cable (750-923) or communication module IO-Link (2789-9080)

Efficiency/Power Losses

Power loss P_i	$\leq 3.6 \text{ W}$ (stand-by); $\leq 4.4 \text{ W}$ (no load); $\leq 21 \text{ W}$ (400 VAC; nominal load)
Efficiency (typ.)	95.9 % (400 VAC; 20 A; 25 °C)

Fuse Protection

Internal fuse	3 x T 2.5 A / 500 VAC
Recommended backup fusing	3 x circuit breaker 6 A, 10 A, 16 A; tripping characteristic: B, C;

Safety and Protection/Environmental Requirements

Isolation voltage (pri.-sec./pri.-GND/sec.-GND/sec.-signal)	3.51 kVDC / 2.2 kVDC / 0.5 kVDC / 0.5 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Oversvoltage category	III ($\leq 2000 \text{ m a. s.l.}$); II ($> 2000 \text{ m a. s.l.}$)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/Yes
MTBF	$> 800.000 \text{ h}$ (per IEC 61709)
Surrounding air temperature (operation)	$-25 \dots +70 \text{ °C}$ (device starts at -40 °C , type-tested)
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2

Connection Data

Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 ... 2.5 mm ² / 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Output (solid/fine-stranded/AWG)	0.5 ... 10 mm ² / 0.5 ... 10 mm ² / 20 ... 8 AWG

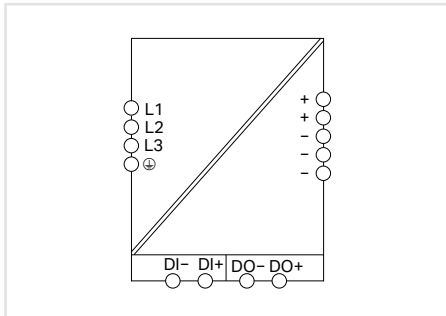
Geometric Data/Mechanical Data/Material Data

Width x height x depth (mm)	70 x 169 x 130; height with connector; depth from upper edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	1400 g

Standards and Specifications

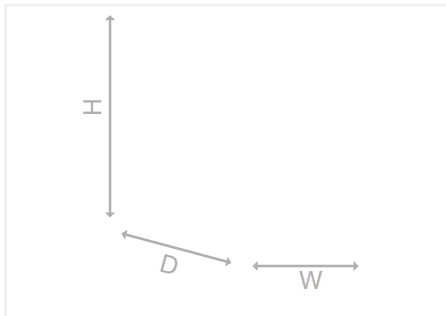
Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; DNV GL
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Switched-Mode Power Supply; Pro 2; 3-Phase; 24 VDC / 40 A 2787 Series



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; communication capability

	Item No.	Pack. Unit
	2787-2348/000-030	1
Protective coating	2787-2348/000-070	



Features:

- Power supply unit with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output; optical status indication, function buttons
- Communication interface for configuration and monitoring
- Optional connection to IO-Link
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input

Nominal input voltage $U_{i, \text{nom}}$	(2/3) x 400 ... 500 VAC
Input voltage range	(2/3) x 340 ... 550 VAC; 480 ... 780 VDC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 3 \times 1.7 \text{ A}$ (400 VAC; 40 ADC)
Inrush current	$\leq 15 \text{ A}$ (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	$\geq 20 \text{ ms}$ (3 x 400 VAC)

Output

Nominal output voltage $U_{o, \text{nom}}$ /adjustment accuracy	24 VDC (SELV) / $\leq 1 \%$
Output voltage range	24 ... 28 VDC (adjustable)
Nominal output current $I_{o, \text{nom}}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	$\leq 70 \text{ mV}$ (peak-to-peak)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)

Signaling and Communication

Signaling	Optical status indication (DC-OK; load; warning and error states); digital signal input and output; (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080) or Modbus RTU Communication Module (2789-9015)

Efficiency/Power Losses

Power loss P_i	See manual
Efficiency (typ.)	96.3 % (400 VAC; 40 A; 25 °C)

Fuse Protection

Internal fuse	3 x T 3.2 A / 500 VAC
Recommended backup fusing	3 x 16 A (for USA/Canada: 3 x 15 A)

Safety and Protection/Environmental Requirements

Isolation voltage (pri.-sec./pri.-GND/sec.-GND/sec.-signal)	3.51 kVDC / 2.2 kVDC / 0.5 kVDC / 0.5 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Oversoltage category	III ($\leq 2000 \text{ m a. s.l.}$); II ($> 2000 \text{ m a. s.l.}$)
Short-circuit-protected	Yes
Parallel operation/series operation	Yes/Yes
MTBF	$> 800.000 \text{ h}$ (per IEC 61709)
Surrounding air temperature (operation)	$-25 \dots +70 \text{ °C}$ (device starts at -40 °C , type-tested)
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
Pollution degree	2

Connection Data

Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/signaling (solid/fine-stranded/AWG)	0.08 ... 2.5 mm ² / 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Output (solid/fine-stranded/AWG)	0.5 ... 10 mm ² / 0.5 ... 10 mm ² / 20 ... 8 AWG

Geometric Data/Mechanical Data/Material Data

Width x height x depth (mm)	120 x 169 x 130; height with connector; depth from upper edge of DIN-35 rail
Mounting type	DIN-35 rail
Weight	2000 g





Standards and Specifications

Approvals/standards/specifications	CE; EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; DNV GL
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Volume 6, WAGO Marking

Volume 6, WAGO Marking

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Products highlighted in RED are new items for Autumn 2021

Marking device

Printer model: Smart Printer ▶ Marking method: Thermotransfer



Connection Data

Interfaces	USB, RS-232, Ethernet 10/100 Mbps
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System Requirements

Memory	4 GB
Supported operating systems	Windows 7; Windows 8; Windows 10

Technical Data

Operating voltage	100 ... 240 VAC, 50 ... 60 Hz (automatic adjustment)
Marking method	Thermal transfer
Print head	Glass layer, spring-mounted
Print speed (max.)	max. 127 mm/s (WAGO recommends 50.8 mm/s)
See-through/reflective sensor	yes, centrally fixed
Operating display	Color TFT LCD with navigation button
Safety approvals	CE (EMC)
Ink ribbon	Reel outside diameter: 40 mm; core inside diameter 12.7 mm (0.5 inch); max. length 110 m; max. width 58 mm
Memory	8 MB
Print resolution	300 dpi (12 pixels/mm)
Print width (max.)	47 mm
Print length (max.)	762 mm

Mechanical Data

Dimensions W x H x D	(135 x 175 x 245) mm
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Environmental Requirements

Surrounding air temperature (operation)	5 ... 40 °C
Surrounding air temperature (storage)	-20 ... 50 °C

Marking device

Printer model: Smart Printer ▶ Marking method: Thermotransfer

Scope of delivery: Power supply + cable, 2 x roller (258-5006 + 258-5007), 1 x reel holder, 1 x ink ribbon (258-5005), Smart Script marking software and driver, USB cable, external unwinder



258-5001

	Item No.	PU
	258-5001	1

PU = Packaging Unit; SPU = Subpackaging Unit

Safety labels; Marking strips 210 / 2009 Series



Safety labels; 99 x 44 mm; 300 labels/reel

Color	Item No.	Pack. Unit
○ silver	210-824	1

Marking strips; for Smart Printer; on reel; not stretchable; plain; 11 mm wide; 20 m reel

Color	Item No.	Pack. Unit
● yellow	2009-110/020-002	1



Cable tie marker 211 Series



Cable tie marker; for Smart Printer; plain; for use with cable ties; 25 x 10 mm; 500 S00 pcs/reel

Color	Item No.	Pack. Unit
● yellow	211-835/000-002	1
● red	211-835/000-005	1
○ white	211-835	1

Cable tie marker; for Smart Printer; plain; for use with cable ties; 100 x 15 mm; 800 pcs/reel

Color	Item No.	Pack. Unit
● yellow	211-836/000-002	1
● red	211-836/000-005	1
○ white	211-836	1

Cable tie marker; for Smart Printer; plain; for use with cable ties; 44 x 10 mm; 500 pcs/reel

Color	Item No.	Pack. Unit
● yellow	211-837/000-002	1
○ white	211-837	1

Accessories

Cable tie; 2.5 x 100 mm



807-090/101-100	1
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