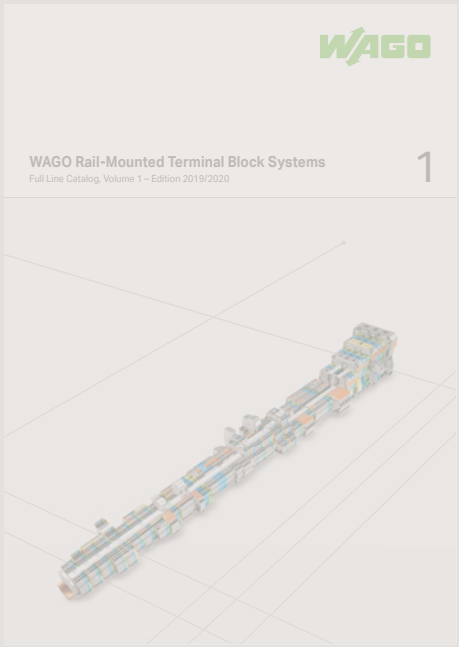
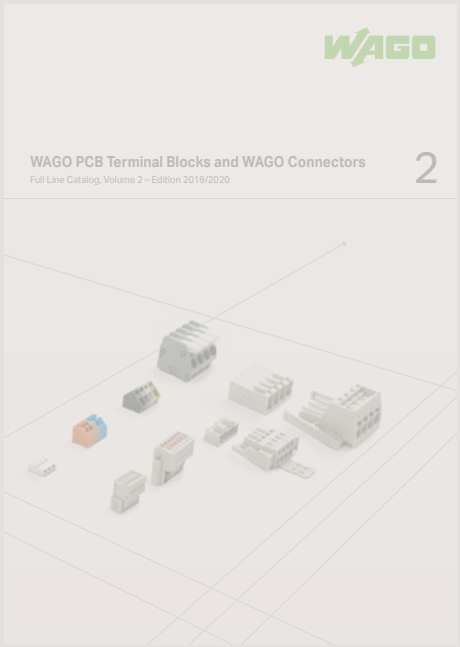
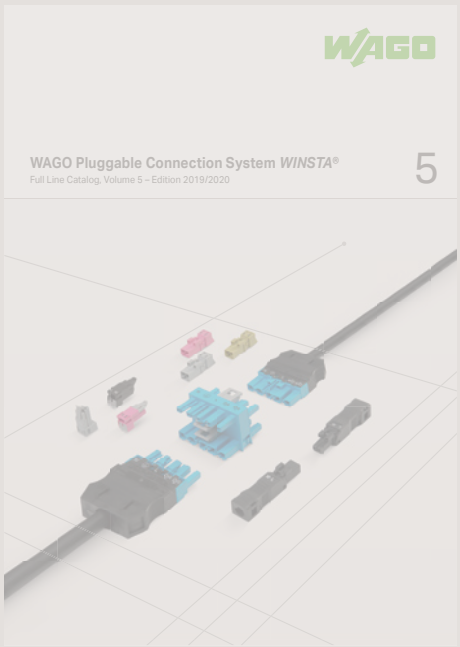
Automation Technology and WAGO Electronic Interface

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

Edition 2019/1





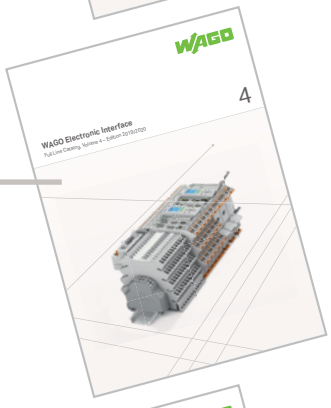


The new items in this catalog supplement products found in the following main catalogs

N 3/4/6

Volume 6
WAGO Marking

Volume 4
WAGO Electronic Interface



Volume 3
Automation Technology

Supplementary Catalog – Automation Technology and WAGO Electronic Interface

Volume 3, Automation Technology

Volume 3, Automation Technology

Products highlighted in RED are new items for Spring 2019

Runtime Software
e!RUNTIME; Sparkplug

Function

MQTT is a powerful MQTT protocol that has become standard in many industrial automation applications. WAGO's PFC200 Controller (second generation) supports the MQTT protocol and the Sparkplug specification that defines both topic and payload, allowing the controller to exchange data directly with Sparkplug-enabled systems (e.g., SCADA). This requires a license for the controller.

Configuration is performed via the controller's Web-based management and the variables to be transmitted or received are defined by the ***e!COCKPIT*** Engineering Software and its library.

Advantages:

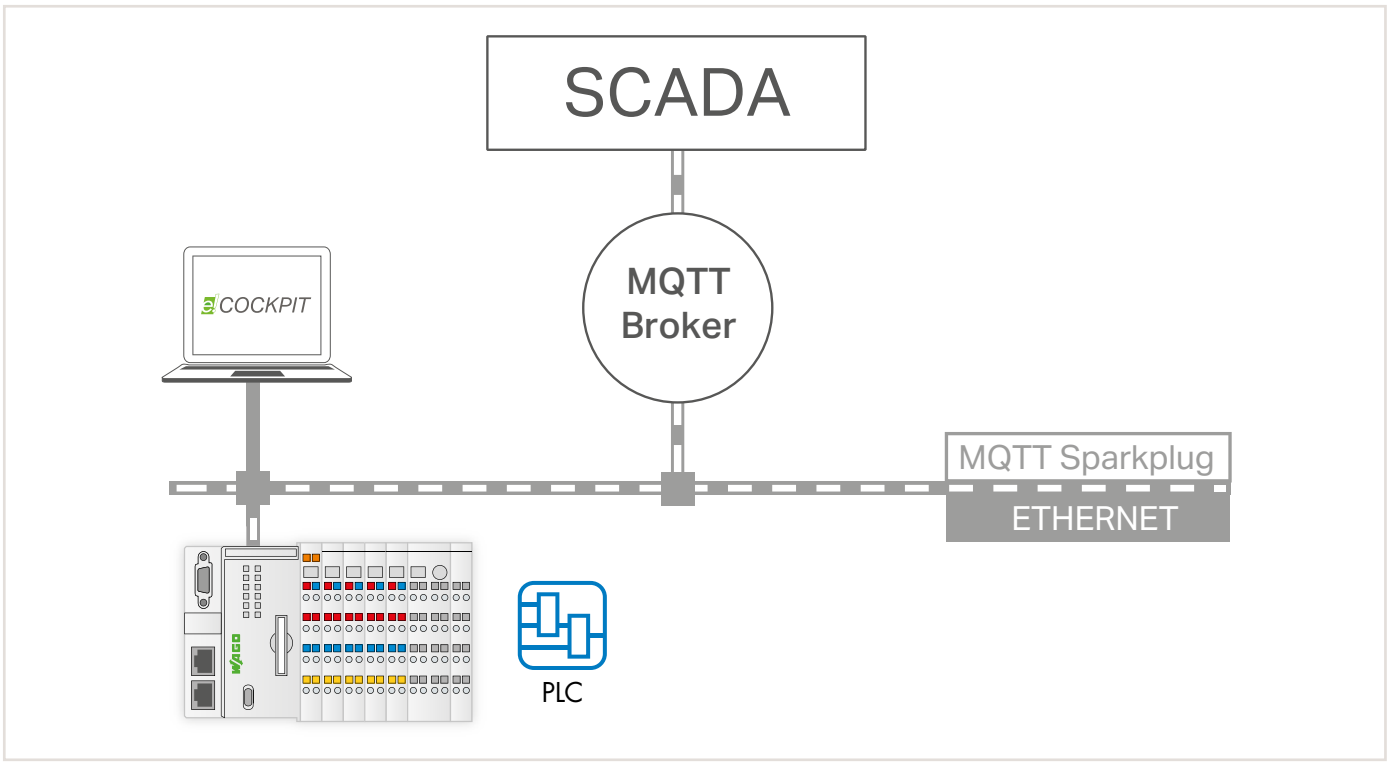
- The PFC200 communicates directly with Sparkplug-enabled systems (e.g., SCADA) without requiring any additional gateway.

Installation:

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

Technical Data:

- Sparkplug B payload
- Publish data
- Subscribe to data



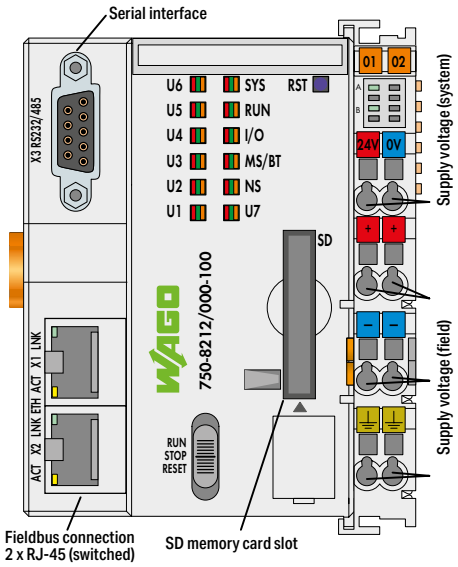
Item Description	
***e!RUNTIME*; Sparkplug**	**Item No.**
Single license	**2759-247/210-1000**
Compatible controllers:	
PFC200; G2; 2ETH RS	**750-8212**
PFC200; G2; 2ETH CAN	**750-8213**
PFC200; G2; 2ETH RS CAN	**750-8214**
PFC200; G2; 4ETH CAN USB	**750-8215**
PFC200; G2; 2ETH RS CAN DPS	**750-8216**

Besides the basic controller variants listed here, the license can also be used on these controllers' variants. For details, see the product information of the corresponding controller.
For detailed information on the controllers, go to:
www.wago.com/itemnumbers

Minimum ***e!COCKPIT*** version	V1.5.0
Minimum firmware version	12
Delivery type	License certificate via email (***e!COCKPIT*** already contains the software itself)
Data sheet and further information, see:	wago.com/2759-247/210-1000

An Internet connection to the PC with the ***e!COCKPIT*** installation may be required for license activation.
The single license allows installation on one controller.
One license per controller is required.

Controller PFC200; BACnet/IP



Item Description	**Controller PFC200; 2nd generation; 2 x ETHERNET; RS-232/-485; BACnet/IP**
Version	**Standard**
Item No.	**750-8212/000-100**
Order Text	PFC200; G2; 2ETH RS; BACnet/IP

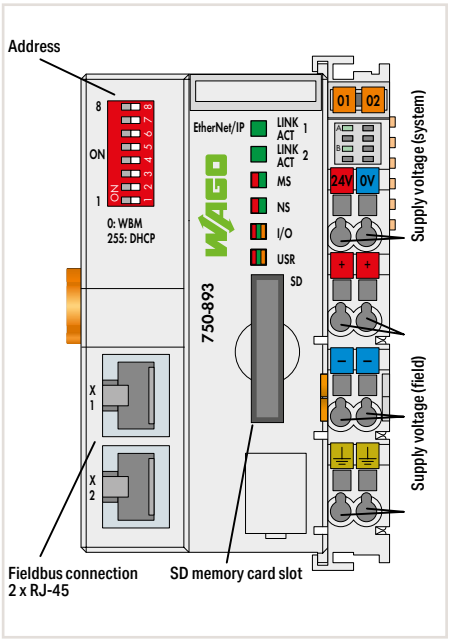
Technical Data	
Communication	BACnet/IP; Modbus (TCP, UDP, RTU); RS-232/-485 interface
ETHERNET protocols	DHCP; DNS; NTP; FTP; FTPS; SNMP; HTTP; HTTPS; SSH
BACnet/IP protocol	ISO 16484-5
BACnet device profile	B-BC (BACnet Building Controller)
BACnet revision	14
Visualization	Web-Visu
Programming	WAGO-I/O-*PRO* V2.3 (based on CODESYS V2.3); ***e!****COCKPIT* (based on CODESYS V3)
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)	60 MB* / 60 MB* / 128 KB
Number of modules per node (max.)	250
Input and output (internal) process image (max.)	1000 words
Input and output (Modbus®) process image (max.)	32,000 words
Supply voltage (system)	24 VDC (–25 … 30 %); via wiring level (CAGE CLAMP® connection)
Supply voltage (field)	24 VDC (–25 … +30 %); via power jumper contacts
Input current (typ.) at nominal load (24 V)	550 mA
Total current (system supply)	1700 mA
Surrounding air temperature (operation)	0 … +55 °C
Dimensions W x H x D	78.6 x 71.9 x 100 mm
Approvals	CE
BACnet approvals	WSPCert certification: Pending; BTL listing: Pending
Data sheet and further information, see:	wago.com/750-8212/000-100

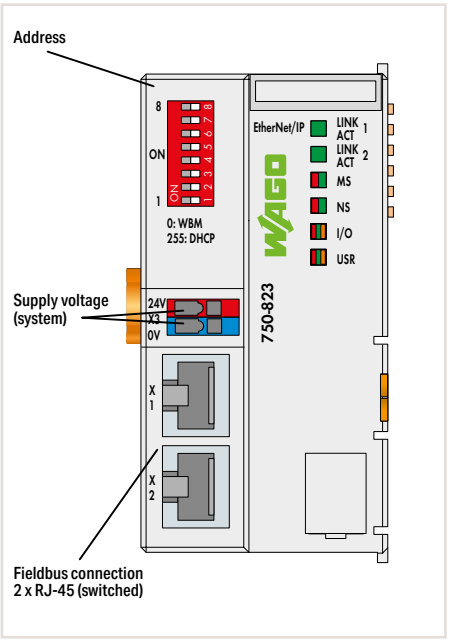
Accessories	**Item No.**
SD memory card; 2 GB	**758-879/000-001**

*For memory configuration via ***e!****RUNTIME*, the program and data memory together have a maximum size of 60 MB and can be distributed dynamically.

Controller EtherNet/IP

Figure: 750-893





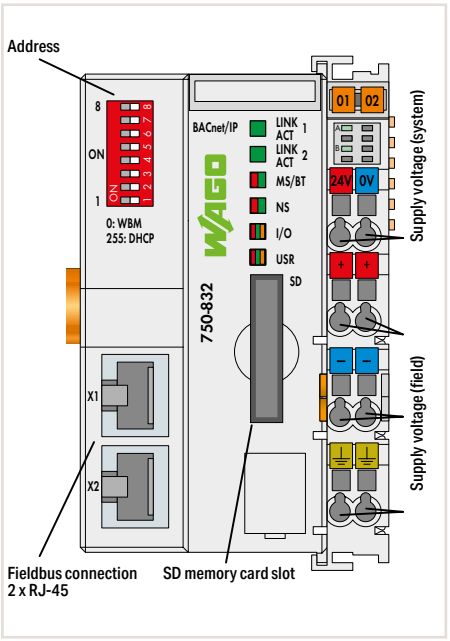
Item Description	Controller EtherNet/IP	Controller EtherNet/IP
Version	SD Card Slot	Eco
Item No.	750-893	750-823
Order Text	Controller EtherNet/IP; SD	Controller EtherNet/IP; Eco
Technical Data		
Communication	EtherNet/IP adapter (slave)	EtherNet/IP adapter (slave)
ETHERNET protocols	HTTP(S), BootP, DHCP, DNS, SNTP, (S)FTP, SNMP	HTTP(S), BootP, DHCP, DNS, SNTP, (S)FTP
Connection technology: fieldbus input/output	2 x RJ-45	2 x RJ-45
Baud rate	10/100 Mbit/s	10/100 Mbit/s
Programming	WAGO-I/O-*PRO* V2.3 (based on CODESYS V2.3)	WAGO-I/O-*PRO* V2.3 (based on CODESYS V2.3)
Type of memory card	SD and SDHC to 32 GB*	
Program memory/data memory/non-volatile memory (software)	8192 KB / 8192 KB / 32 KB	2048 KB / 2048 KB / 16 KB
Number of modules per node (max.)	250	250
Input and output (internal) process image (max.)	1020 words	1020 words
Supply voltage (system)	24 VDC (−25 … +30 %); via wiring interface (CAGE CLAMP® connection)	24 VDC (−25 … +30 %); via wiring interface
Supply voltage (field)	24 VDC (−25 … +30 %); via power jumper contacts	
Input current (typ.) at nominal load (24 V)	500 mA	300 mA
Current consumption – system supply (5 V)	440 mA	390 mA
Total current (system supply)	1700 mA	700 mA
Surrounding air temperature (operation)	0 … +55 °C	0 … +55 °C
Dimensions W x H x D	61.5 x 71.9 x 100 mm	49.5 x 71.9 x 96.8 mm
Approvals	CE; KC; Marine; OrdLoc/HazLoc; ATEX/IECEx	CE; KC; Marine; OrdLoc/HazLoc; ATEX/IECEx
Data sheet and further information, see:	wago.com/750-893	wago.com/750-823

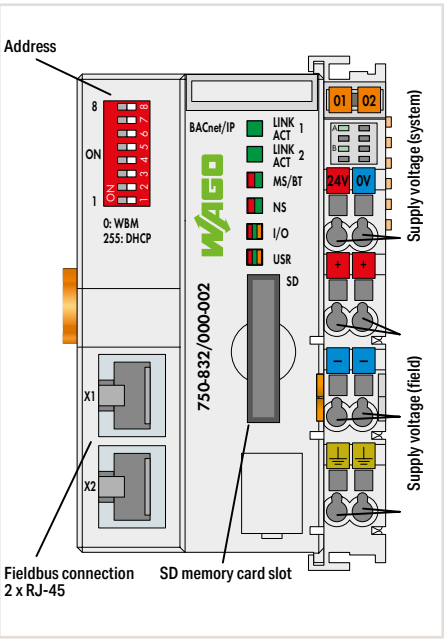
Accessories	Item No.
SD Memory Card, 2 GB	758-879/000-001

*All guaranteed specifications are only valid with the WAGO Memory Card listed as an accessory.

Controller BACnet/IP; 4th generation; 2 x ETHERNET; SD card slot

Figure: 750-832





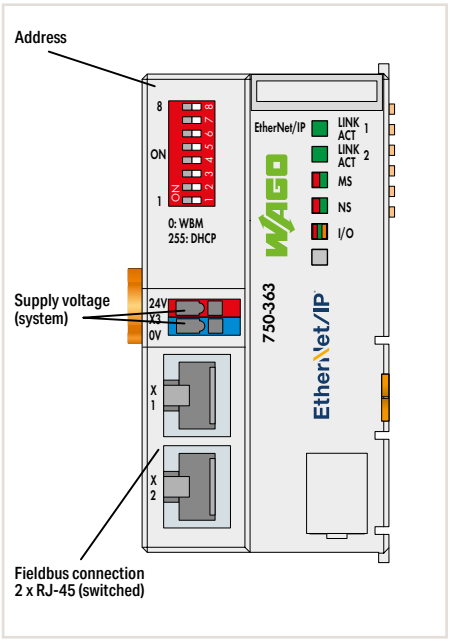
Item Description	Controller BACnet/IP; 4th generation; 2 x ETHERNET; SD card slot	Controller BACnet/IP; 4th generation; 2 x ETHERNET; SD card slot
Version		**Eco**
Item No.	**750-832**	**750-832/000-002**
Order Text	Controller BACnet/IP; G4; 2xETH; SD	Controller BACnet/IP; G4; 2xETH; SD; Eco
		750-832/000-002 Controllers support a maximum of 256 BACnet objects.
Technical Data		
Communication	BACnet/IP; Modbus (TCP, UDP)	BACnet/IP; Modbus (TCP, UDP)
ETHERNET protocols	HTTP(S), BootP, DHCP, DNS, SNTP, (S)FTP, SNMP	HTTP(S), BootP, DHCP, DNS, SNTP, (S)FTP, SNMP
Connection technology: fieldbus input/output	2 x RJ-45	2 x RJ-45
Baud rate	10/100 Mbit/s	10/100 Mbit/s
Programming	WAGO-I/O-*PRO* V2.3 (based on CODESYS V2.3)	WAGO-I/O-*PRO* V2.3 (based on CODESYS V2.3)
Type of memory card	SD and SDHC to 32 GB*	SD and SDHC to 32 GB*
BACnet device profile	B-BC (BACnet Building Controller)	B-BC (BACnet Building Controller)
BACnet revision	12	12
Program memory/data memory/non-volatile memory (software)	8192 KB / 8192 KB / 28 KB	8192 KB / 8192 KB / 28 KB
Number of modules per node (max.)	250	250
Input and output (internal) process image (max.)	1020 words	1020 words
Supply voltage (system)	24 VDC (−25 … +30 %); via wiring interface (CAGE CLAMP® connection)	24 VDC (−25 … +30 %); via wiring interface (CAGE CLAMP® connection)
Supply voltage (field)	24 VDC (−25 … +30 %); via power jumper contacts	24 VDC (−25 … +30 %); via power jumper contacts
Input current (typ.) at nominal load (24 V)	500 mA	500 mA
Current consumption – system supply (5 V)	440 mA	440 mA
Total current (system supply)	1700 mA	1700 mA
Surrounding air temperature (operation)	0 … +55 °C	0 … +55 °C
Dimensions W x H x D	61.5 x 71.9 x 100 mm	61.5 x 71.9 x 100 mm
Approvals	CE	CE
BACnet approvals	WSPCert certification: Pending; BTL listing: Pending	WSPCert certification: Pending; BTL listing: Pending
Data sheet and further information, see:	wago.com/750-832	wago.com/750-832/000-002

Accessories	Item No.	Item No.
SD Memory Card, 2 GB	**758-879/000-001**	**758-879/000-001**
BACnet Configurator	**Download: www.wago.com**	**Download: www.wago.com**

*All guaranteed specifications are only valid with the WAGO Memory Card listed as an accessory.

*All guaranteed specifications are only valid with the WAGO Memory Card listed as an accessory.

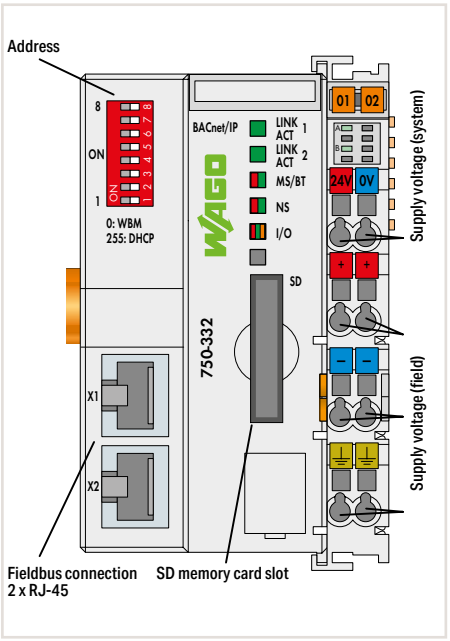
Fieldbus Coupler EtherNet/IP



Item Description	Fieldbus Coupler EtherNet/IP
Version	Standard
Item No.	750-363
Order Text	FC EtherNet/IP

Technical Data	
Fieldbus	EtherNet/IP adapter (slave)
Protocols	HTTP(S), BootP, DHCP, DNS, (S)FTP, SNMP
Connection technology: fieldbus input/output	2 x RJ-45
Bus segment length (max.)	100 m
Baud rate	10/100 Mbit/s
Transmission medium	Twisted Pair S-UTP; 100 Ω; Cat. 5; Line length (max.): 100 m
Number of modules per node (max.)	250
Input and output (internal) process image (max.)	1020 words
Supply voltage (system)	24 VDC (–25 … +30 %); via wiring interface
Input current (typ.) at nominal load (24 V)	280 mA
Current consumption – system supply (5 V)	350 mA
Total current (system supply)	700 mA
Surrounding air temperature (operation)	0 … +55 °C
Dimensions W x H x D	49.5 x 71.9 x 96.8 mm
Approvals	CE; KC; Marine; cULus OrdLoc/HazLoc; ATEX/IECEx
Data sheet and further information, see:	wago.com/750-363

Fieldbus Coupler BACnet/IP



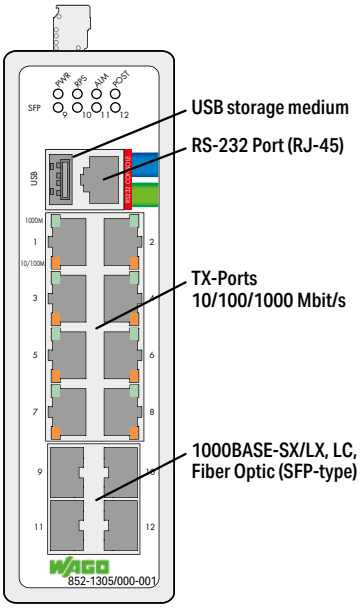
Item Description	Fieldbus Coupler BACnet/IP
Item No.	750-332
Order Text	FC BACnet/IP

Technical Data	
Fieldbus	BACnet/IP; Modbus (TCP, UDP)
Protocols	HTTP(S), BootP, DHCP, DNS, (S)FTP, SNMP
Connection technology: fieldbus input/output	2 x RJ-45
Transmission medium	Twisted Pair S-UTP; 100 Ω; Cat. 5; Line length (max.): 100 m
Baud rate	10/100 Mbit/s
Transmission performance	Class D per EN 50173
Type of memory card	SD and SDHC to 32 GB*
BACnet device profile	B-BC (BACnet Building Controller)
BACnet revision	12
Number of modules per node (max.)	250
Supply voltage (system)	24 VDC (–25 … +30 %); via wiring interface (CAGE CLAMP® connection)
Supply voltage (field)	24 VDC (–25 … +30 %); via power jumper contacts
Input current (typ.) at nominal load (24 V)	500 mA
Current consumption – system supply (5 V)	440 mA
Total current (system supply)	1700 mA
Surrounding air temperature (operation)	0 … +55 °C
Dimensions W x H x D	61.5 x 71.9 x 100 mm
Approvals	CE
BACnet approvals	WSPCert certification: Pending; BTL listing: Pending
Data sheet and further information, see:	wago.com/750-332

Accessories	Item No.
SD Memory Card, 2 GB	758-879/000-001
BACnet Configurator	Download: www.wago.com

*All guaranteed specifications are only valid with the WAGO Memory Card listed as an accessory.

Industrial Managed Switch

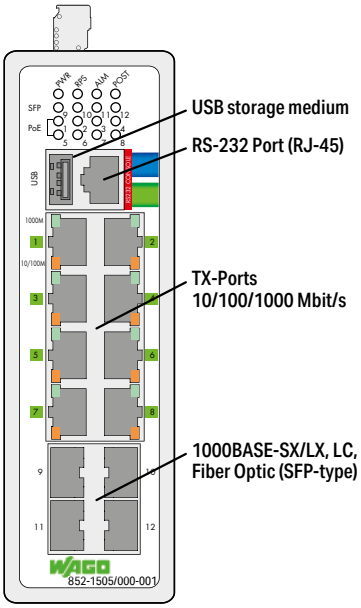


Item Description	Industrial Managed Switch; 8-port 1000BASE-T; 4-slot 1000BASESX/LX; Extended temperature range; USB
Item No.	852-1305/000-001
Order Text	Industrial Managed Switch; 8Port 1000BASE-T; 4Slot 1000BASE-SX/LX; EXT; USB

Technical Data	
Switching mode	Store-and-forward, non-blocking
Number of copper ports	8 x 1000BASE-T
Number of FOC ports	4 x 1000BASE-SX/LX
Communication standards	IEEE 802.3 10BASE-T; IEEE 802.3u 100BASE-TX; IEEE 802.3ab 1000BASE-T; IEEE 802.3z 1000BASE-SX/LX; IEEE 802.3x Flow Control; IEEE 802.1d Spanning Tree Protocol (STP); IEEE 802.1w Rapid Spanning Tree Protocol (RSTP); IEEE 802.1s Multiple Spanning Tree Protocol (MSTP); IEEE 802.1Q VLAN Tagging; IEEE 802.1p Prioritization; IEEE 802.1x Port Authentication; IEEE 802.1ab Link Layer Discovery Protocol (LLDP); IEEE 802.3ad Link Aggregation; IEEE 1588v2 Precision Time Protocol (PTP); ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS)
Redundancy functions	Redundant DC power supply; STP; RSTP; MSTP; Jet Ring < 300 ms; Xpress Ring < 20 ms; Dual Homing < 20 ms; Dual Ring; ERPSv2 < 50 ms; LCAP
Configuration	DIP switch for signal contact; Web-Based-Management; Command Line Interface; SNMPv1/v2c/v3; USB storage medium
Diagnostics	Signal contact; Modbus TCP; Port status; Port statistics; Port load; Traffic monitor; SFP information; Syslog; Mail alarm; SNMP traps; Loop detection; ...
MAC table (large)	16,000 addresses
Jumbo frame size	10 KB
Supply voltage	12 … 60 VDC
Power consumption (max.)	18 W
ESD (contact/air discharge)	8 KV / 15 KV
Connection technology (communication)	8 x RJ-45; 4 x SFP; 1 x RJ-45 (RS-232)
Surrounding air temperature (operation)	−40 … +70 °C
Dimensions W x H x D	50 x 120 x 162 mm
Approvals	CE; cULus OrdLoc*
Data sheet and further information, see:	wago.com/852-1305/000-001

*pending

Industrial Managed Switch



Item Description	**Industrial Managed Switch; 8-port 1000BASE-T; 4-slot 1000BASESX/LX; Extended temperature range; 8 * Power over Ethernet; USB**
Item No.	**852-1505/000-001**
Order Text	Industrial Managed Switch; 8Port 1000BASE-T; 4Slot 1000BASE-SX/LX; EXT; 8PoE; USB

Technical Data

Switching mode	Store-and-forward, non-blocking
Number of copper ports	8 x 1000BASE-T; 8 x PoE+ (Power over Ethernet)
Number of FOC ports	4 x 1000BASE-SX/LX
Communication standards	IEEE 802.3 10BASE-T; IEEE 802.3u 100BASE-TX; IEEE 802.3ab 1000BASE-T; IEEE 802.3z 1000BASE-SX/LX; IEEE 802.3x Flow Control; IEEE 802.1d Spanning Tree Protocol (STP); IEEE 802.1w Rapid Spanning Tree Protocol (RSTP); IEEE 802.1s Multiple Spanning Tree Protocol (MSTP); IEEE 802.1Q VLAN Tagging; IEEE 802.1p Prioritization; IEEE 802.1x Port Authentication; IEEE 802.1ab Link Layer Discovery Protocol (LLDP); IEEE 802.3ad Link Aggregation; IEEE 1588v2 Precision Time Protocol (PTP); IEEE 802.3af Power over Ethernet (PoE); IEEE 802.3at High Power over Ethernet (PoE+); ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS)
Redundancy functions	Redundant DC power supply; STP; RSTP; MSTP; Jet Ring < 300 ms; Xpress Ring < 20 ms; Dual Homing < 20 ms; Dual Ring; ERPSv2 < 50 ms; LCAP
Configuration	DIP switch for signal contact; Web-Based-Management; Command Line Interface; SNMPv1/v2c/v3; USB storage medium
Diagnostics	Signal contact; Modbus TCP; Port status; Port statistics; Port load; Traffic monitor; SFP information; Syslog; Mail alarm; SNMP traps; Loop detection; …
MAC table (large)	16,000 addresses
Jumbo frame size	10 KB
Supply voltage	24 … 57 VDC
Power consumption (max.)	18 W; 258 W with 8 PoE+
ESD (contact/air discharge)	8 KV / 15 KV
Connection technology (communication)	8 x RJ-45; 4 x SFP; 1 x RJ-45 (RS-232)
Surrounding air temperature (operation)	–40 … +70 °C
Dimensions W x H x D	50 x 120 x 162 mm
Approvals	CE; cULus OrdLoc*
Data sheet and further information, see:	wago.com/852-1505/000-001

*pending

WLAN ETHERNET Gateway

Power connector:
M12 plug, A-coded

1: Vin + (9 … 30 VDC)
2: Digital input GND
3: Vin GND (0 V)
4: Digital input + (9 … 30 VDC)
5: Functional ground

ETHERNET connector:
M12 socket, D-coded

1: Transmit +
2: Receive +
3: Transmit -
4: Receive -

Item Description	Wireless ETHERNET Gateway; External antenna
Item No.	**758-918/000-001**
Order Text	Wireless ETHERNET Gateway; External Antenna
Technical Data	
Radio technology	*Bluetooth*®: 4.0; WLAN: 802.11a/b/g/d/e/i/h
Topology	Peer-to-peer connection
Security authentication	WLAN: WPA/WPA2 PSK; LEAP; PEAP
Security encryption	WLAN: none; WEP64; WEP128; TKIP; AES/CCMP
Frequency band	ISM band; 2.4 GHz (*Bluetooth*®, WLAN); ISM band; 5 GHz (WLAN)
Transmission range	Up to 400 m*
Antenna	External dipole antenna (3dBi); included in delivery
Supply voltage	24 VDC (9 … 30 V)
Connectors	ETHERNET connector: M12 socket, D-coded Power connector: M12 plug, A-coded; RP-SMA socket for external antenna
Configuration	Simple push-button operation and Web-Based Management
Number of inputs	1 (trigger input: 9 … 30 VDC)
Surrounding air temperature (operation)	–30 … +65 °C
Dimensions W x H x D	67.8 × 33.2 x 92.7
Protection type	IP65
Approvals	CE
Data sheet and further information, see:	wago.com/758-918/000-001

*The maximum range in the field decreases within buildings and varies depending on building materials and spatial geometry. Therefore, range specifications within buildings can only represent a typical value that can normally be achieved. More detailed information is available in the manual.

The Wireless ETHERNET Gateway simplifies the creation of a wireless transmission link for ETHERNET protocols (e.g., PROFINET, Modbus/TCP, Ethernet/IP).
The gateway is used as a cable substitute to create a robust, industry-proven *Bluetooth*® or WLAN link between two automation devices.
The gateway supports various configurations and can therefore also be operated as an access point.
IP65 protection type and an external antenna allow installation of the Wireless ETHERNET Gateway within a conductive housing. The external antenna must be mounted on the outside of the housing. Simple push-button operation rapidly connects two Wireless ETHERNET Gateways. Additional settings can be made via Web-Based Management.

Note:
Two Wireless ETHERNET Gateways of the same type are required to establish a peer-to-peer connection.

Accessories

Figure: 2852-7110

Room Control Unit		
	Item No.	Pack. Unit
WRF04-P Room Control Unit, Passive, Surface-mount, Pt1000, 5 kOhm	2852-7110	1
WRF07-P Room Control Unit, Passive, Flush-mount, Pt1000, 5 kOhm	2852-7111	1
SR04-P Room Control Unit, Radio, Surface-mount, EnOcean	2852-7112	1
SR06-LCD Room Control Unit, Radio, Flush-mount, EnOcean, 2 push buttons	2852-7113	1
WRF04-P-RS-485 Room Control Unit, MODBUS, Surface-mount, Temperature, Set point value	2852-7114	1
WRF07-P-RS-485 Room Control Unit, MODBUS, Flush-mount, Temperature, Set point value	2852-7115	1

Figure: 2852-7510

Manual Operation Module		
	Item No.	Pack. Unit
RBT10 Signaling Module, 12 LEDs	2852-7510	1
RBT20 Output Module, 4 switches, 8 LEDs	2852-7511	1
RBT30 Output Module, 4 push-buttons, 4 LEDs + 12 LEDs	2852-7512	1
RBT40 Analog Module, 4 rotary encoders, 4 bar displays	2852-7513	1
RBT50 Operating Module, 2 analog, 2 digital	2852-7514	1

Connection Board		
	Item No.	Pack. Unit
RBT-AK Connection Board for Robutec Series	2852-7515	1

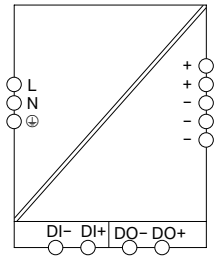
Rack		
	Item No.	Pack. Unit
RTR4050S Rack 4 HE, 50TE	2852-7516	1

Volume 4, WAGO Electronic Interface

Volume 4, WAGO Electronic Interface

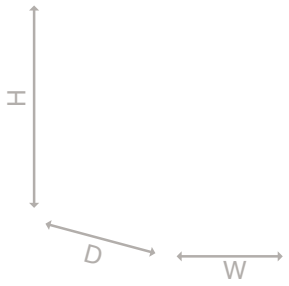
Products highlighted in RED are new items for Spring 2019

Power Supply; Pro 2; 1-Phase; 24 VDC / 5 A
2787 Series



Power Supply; Pro 2; 1-phase;
Output voltage: 24 VDC; Output current: 5 A;
TopBoost + PowerBoost; DI/DO;
Communication interface

	Item No.	Pack. Unit
	2787-2144	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- 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 marker cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	1.8 … 1 A (nominal load)
Inrush current	≤ 9 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 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)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (stand-by); ≤ 2 W (no load); ≤ 10 W (nominal load)
Efficiency	≥ 91.5 %
Circuit Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/sec.-DI/sec.-DO)	5.657 kVDC / 2.2 kVDC / 0.708 kVDC / 0.708 kVDC / 0.708 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,000,000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °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®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	35 x 166 x 130; Height with connector; Depth from upper-edge of DIN-35 rail
Mounting type	DIN-35 rail (EN 60715)
Weight	650 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

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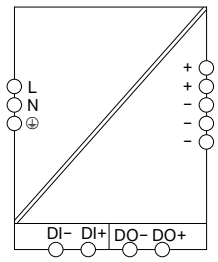
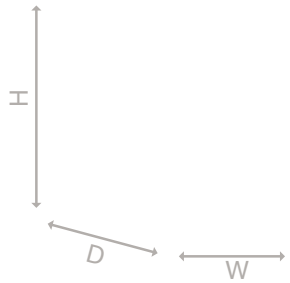
Power Supply; Pro 2; 1-Phase; 24 VDC / 10 A
2787 Series



Power Supply; Pro 2; 1-phase;
Output voltage: 24 VDC; Output current: 10 A;
TopBoost + PowerBoost; DI/DO;
Communication interface

	Item No.	Pack. Unit
	2787-2146	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- 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 marker cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	2.95 … 1.2 A (nominal load)
Inrush current	≤ 11 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 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)
Efficiency/Power Losses	
Power loss P_l	≤ 1 W (stand-by); ≤ 3.7 W (no load); ≤ 15.5 W (nominal load / 230 VAC)
Efficiency	≥ 92.8 %
Circuit Protection	
Internal fuse	T 6.3 A / 250 VAC
Recommended backup fusing	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/sec.-DI/sec.-DO)	5.657 kVDC / 2.2 kVDC / 0.708 kVDC / 0.708 kVDC / 0.708 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,100,000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °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®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	50 x 166 x 130; Height with connector; Depth from upper-edge of DIN-35 rail
Mounting type	DIN-35 rail (EN 60715)
Weight	1000 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

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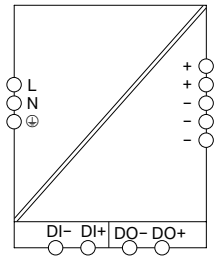
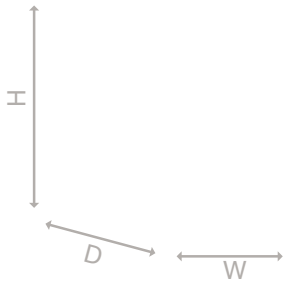
Power Supply; Pro 2; 1-Phase; 24 VDC / 20 A
2787 Series



Power Supply; Pro 2; 1-phase;
Output voltage: 24 VDC; Output current: 20 A;
TopBoost + PowerBoost; DI/DO;
Communication interface

	Item No.	Pack. Unit
	2787-2147	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- 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 marker cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	5.85 … 2.18 A (nominal load)
Inrush current	≤ 12 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 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)
Efficiency/Power Losses	
Power loss P_l	≤ 1.1 W (stand-by); ≤ 4 W (no load); ≤ 28 W (nominal load / 230 VAC)
Efficiency	≥ 94 %
Circuit Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/sec.-DI/sec.-DO)	5.657 kVDC / 2.2 kVDC / 0.708 kVDC / 0.708 kVDC / 0.708 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 900,000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °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®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical 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 (EN 60715)
Weight	1450 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

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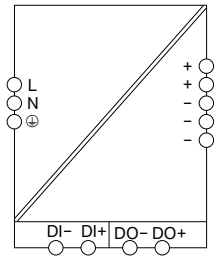
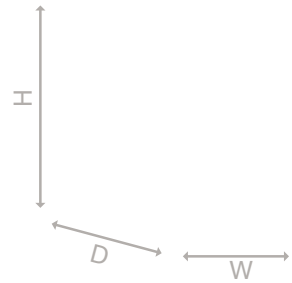
Power Supply; Pro 2; 1-Phase; 24 VDC / 40 A
2787 Series



Power Supply; Pro 2; 1-phase;
Output voltage: 24 VDC; Output current: 40 A;
TopBoost + PowerBoost; DI/DO;
Communication interface

	Item No.	Pack. Unit
	2787-2448	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- 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 marker cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	200 … 240 VAC
Input voltage range	180 … 264 VAC; 255 … 373 VDC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	5.15 … 4.35 A (nominal load)
Inrush current	≤ 10 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 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)
Efficiency/Power Losses	
Power loss P_l	≤ 1.5 W (stand-by); ≤ 4 W (no load); ≤ 50 W (nominal load / 230 VAC)
Efficiency	≥ 95 %
Circuit Protection	
Internal fuse	T 10 A / 250 VAC
Recommended backup fusing	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND/sec.-DI/sec.-DO)	5.657 kVDC / 2.2 kVDC / 0.708 kVDC / 0.708 kVDC / 0.708 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 900,000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °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®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical 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 (EN 60715)
Weight	1900 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

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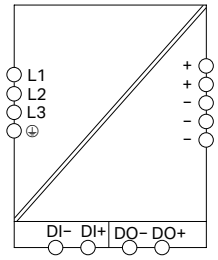
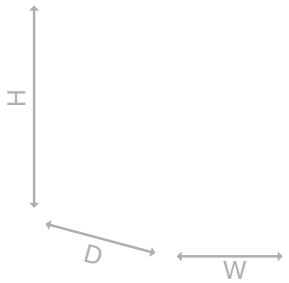
Power Supply; Pro 2; 3-Phase; 24 VDC / 20 A
2787 Series



Power Supply; Pro 2; 3-phase;
Output voltage: 24 VDC; Output current: 20 A;
TopBoost + PowerBoost; DI/DO;
Communication interface

	Item No.	Pack. Unit
	2787-2347	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- 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 marker cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	(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	≤ 3 x 0.8 A (400 VAC; 20 ADC)
Inrush current	≤ 3 x 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 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)
Efficiency/Power Losses	
Power loss P_l	≤ 3.6 W (stand-by); ≤ 4.4 W (no load); ≤ 21 W (nominal load)
Efficiency	≥ 94.8 %
Circuit 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.-DI/sec.-DO)	5.657 kVDC / 2.2 kVDC / 0.708 kVDC / 0.708 kVDC / 0.708 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 800,000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °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®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical 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 (EN 60715)
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

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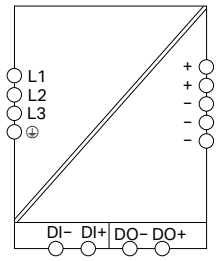
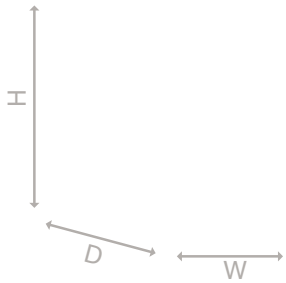
Power Supply; Pro 2; 3-Phase; 24 VDC / 40 A
2787 Series



Power Supply; Pro 2; 3-phase;
Output voltage: 24 VDC; Output current: 40 A;
TopBoost + PowerBoost; DI/DO;
Communication interface

	Item No.	Pack. Unit
	2787-2348	1



Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- 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 marker cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	(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	≤ 3 x 1.7 A (240 VAC; 40 ADC)
Inrush current	≤ 3 x 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 1 %
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 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)
Efficiency/Power Losses	
Power loss P_l	See manual
Efficiency	≥ 95 %
Circuit Protection	
Internal fuse	T 3.2 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.-DI/sec.-DO)	5.657 kVDC / 2.2 kVDC / 0.708 kVDC / 0.708 kVDC / 0.708 kVDC
Protection class/protection type	I / IP20 (per EN 60529)
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 800,000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °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®
Input/signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical 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 (EN 60715)
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

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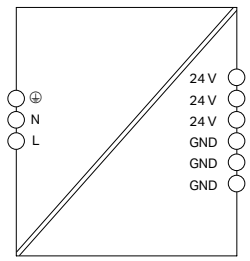
Accessories for Pro 2 Power Supplies
IO-Link Communication Module

IO-Link Communication Module		
	Item No.	Pack. Unit
	2789-9080	1

Features:
- Communication module snaps onto Pro 2 Power Supplies' communication interface
- IO-Link device supports IO-Link specification 1.1
- Suitable for configuring and monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Pluggable connection technology
- Marker slot for WAGO marker cards (WMB) and WAGO marking strips

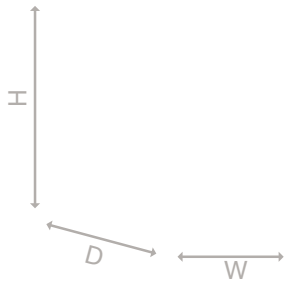
Operating Data	
Supply voltage	24 VDC (SELV; via IO-Link master)
Current consumption	≤ 15 mA
Signaling and Communication	
Signaling	Red LED (ERR); Green LED (COM)
Communication	IO-Link
IO-Link version	1.1
Baud rate	230.4 kbit/s (COM 3)
Data width	5 bytes
Data update rate	25 ms
Safety and Protection/Environmental Requirements	
Isolation	0.63 kVDC
Protection type	IP20 (per EN 60529)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection Data	
Connection technology	CAGE CLAMP®
Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length	≤ 20 m
Physical Data/Mechanical Data/Material Data	
Width x Height x Depth (mm)	70 x 169 x 130; Height with connector; Depth in mounted position
Mounting type	Snaps onto Pro 2 Power Supplies' communication interface (X4)
Weight	35 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

Power Supply; Compact; 1-Phase; 24 VDC / 1.25 A
787 Series



Power Supply; Compact; 1-phase;
Output voltage: 24 VDC; Output current: 1.25 A

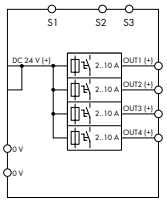
	Item No.	Pack. Unit
	787-2850	1



Features:
- Stepped profile for installation in standard distribution boards
- Connection technology with Push-in CAGE-CLAMP®
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN/UL 61010-1 or EU/UL 61010-2-201

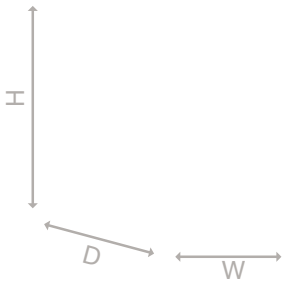
Input	
Nominal input voltage $U_{i\,nom}$	110 … 240 VAC
Input voltage range	100 … 264 VAC
Nominal mains frequency range	47 … 63 Hz
Input current I_i	≤ 0.55 A (110 VAC); ≤ 0.33 A (240 VAC)
Inrush current	≤ 24 A (NTC)
Mains failure hold-up time	≥ 95 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$/adjustment accuracy	24 VDC (SELV) / ≤ 2 %
Output voltage range	24 VDC (fixed setting)
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC)
Nominal output power	30 W
Residual ripple	≤ 60 mV (peak-to-peak)
Overload behavior	Hiccup
Signaling and Communication	
Signaling	1 x status indication LED (green)
Efficiency/Power Losses	
Power loss P_l	≤ 0.5 W (230 VAC; no load); ≤ 4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,max.}$	≤ 5 W (110 VAC / 24 VDC; 1.35 A)
Efficiency	≥ 88 %
Cuircuit Protection	
Internal fuse	T 1.25 A / 250 VAC
Recommended backup fusing	Circuit breaker: 16 A; Tripping characteristic: B or C
Safety and Protection/Environmental Requirements	
Isolation voltage (pri.-sec./pri.-GND/sec-GND)	3.5 kVDC / 1.4 kVDC / 0.5 kVDC
Protection class/type	I / IP20 (per EN 60529)
Overvoltage category	III
Short-circuit-protected	Yes
Parallel/series operation	Yes/Yes
MTBF	> 2,500,000 h (per EN/IEC 61709 at +40 °C)
Surrounding air temperature (operation)	−20 … +70 °C (in nominal mounting position); −20 … +55 °C (in any mounting position)
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−1.7 %/K (> +55 °C)
Pollution degree	2
Connection Data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.25 … 2.5 mm² / 0.2 … 2.5 mm² / 20 … 12 AWG
Output (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 2.5 mm² / 24 … 16 AWG
Physical Data/Mechanical Data/Material Data	
Width x height x depth (mm)	36 x 90 x 55; Depth from upper-edge of DIN-35 rail
Mounting type	DIN-35 rail (EN 60715)
Weight	125 g
Standards and Specifications	
Approvals/standards/specifications	CE; EN 61204-3; EN 61010-1; EN 61010-2-201; cULus 61010-1; cULus 61010-2-201; DNV GL

Electronic Circuit Breaker; 24 VDC / 2 … 10 A
787 Series



Electronic Circuit Breaker; 4-channel; Input voltage: 24 VDC; Adjustable: 2 … 10 A; Communication-capable; NPN signaling

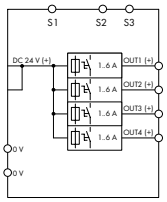
	Item No.	Pack. Unit
	787-1664/000-011	1



Features:
- ECB with four channels, parametrizable
- Signal and control contacts with inverted logic (low-side switching signal outputs)
- Time-delayed switching of channels
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Message reports status for each channel via pulse sequence
- Group signal reports “channel switched off” and “tripped channel”
- Remote control input for switching on/off any number of channels via pulse sequence
- Remote control input for resetting all tripped channels

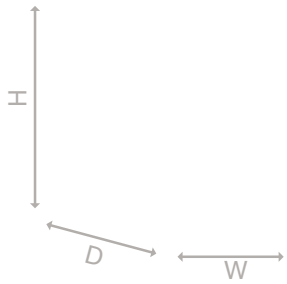
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 200 mV (10 A)
Nominal output current $I_{o\,nom}$	4 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x remote control input with inverted logic (S1); 2 x active signal output, low-side switching (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 10 W (4 x 10 A)
Efficiency	≥ 99 %
Cuircuit Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	≥ +50 °C (see instruction manual)
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (-); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; Depth from upper-edge of DIN-35 rail
Mounting type	DIN-35 rail (EN 60715)
Weight	170 g
Standards and Specifications	
Approvals/standards/specifications	CE; UL 508; UL 2367; GL; EN 60950; EN 61000-6-2; EN 61000-6-3

Electronic Circuit Breaker; 24 VDC / 1 … 6 A
787 Series



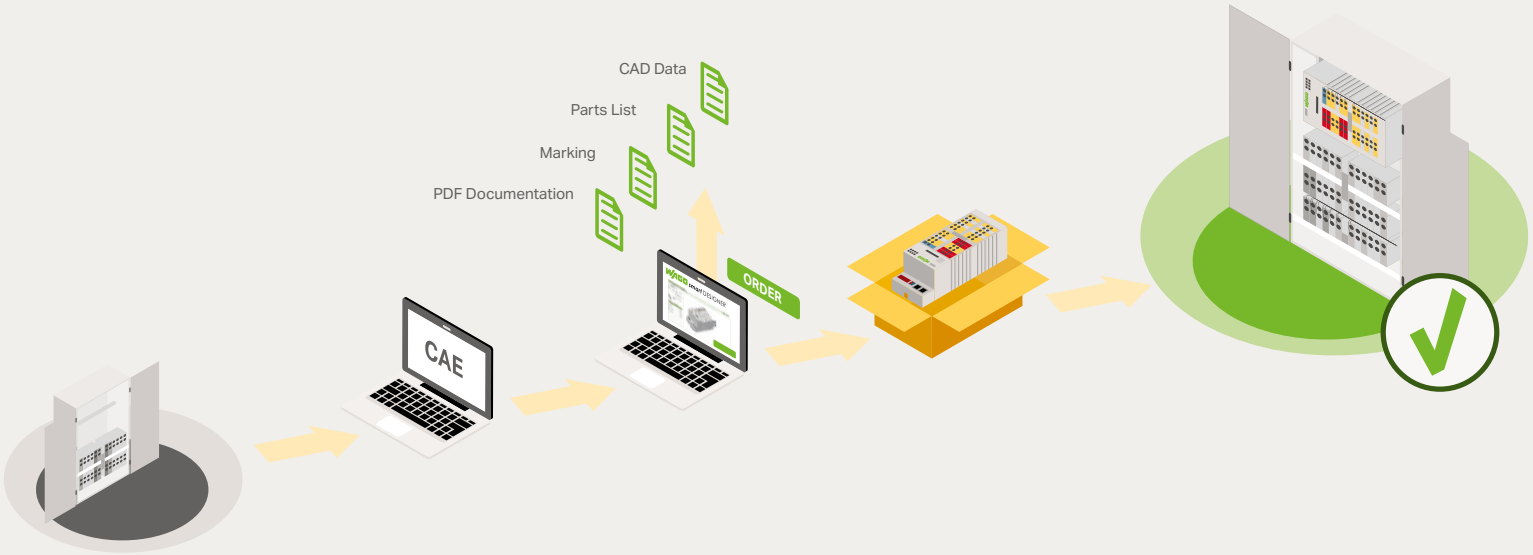
Electronic Circuit Breaker; 4-channel; Input voltage: 24 VDC; Adjustable: 1 … 6 A; Communication-capable; NPN signaling

	Item No.	Pack. Unit
	787-1664/106-011	1



Features:
- ECB with four channels, parametrizable
- Signal and control contacts with inverted logic (low-side switching signal outputs)
- Time-delayed switching of channels
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Message reports status for each channel via pulse sequence
- Group signal reports “channel switched off” and “tripped channel”
- Remote control input for switching on/off any number of channels via pulse sequence
- Remote control input for resetting all tripped channels

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x 24 VDC
Output voltage range	18 … 30 VDC (U_i – Voltage drop)
Voltage drop	≤ 120 mV (6 A)
Nominal output current $I_{o\,nom}$	4 x 1 / 2 / 3 / 4 / 5 / 6 A (adjustable for each channel via selector switch)
Trip time	16 ms … 100 s (load-dependent)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Signaling and Communication	
Signaling	4 x LED (green/red/orange); 1 x remote control input with inverted logic (S1); 2 x active signal output, low-side switching (S2; S3)
Remote input	Reactivation of all tripped channels via 15 … 30 VDC pulse for min. 500 ms; Switching on/off any number of channels via pulse sequence
Efficiency/Power Losses	
Power loss P_l	≤ 0.84 W (no load); ≤ 4.2 W (4 x 6 A)
Efficiency	≥ 99 %
Cuircuit Protection	
Internal fuse	T 15 A per channel
Safety and Protection/Environmental Requirements	
Isolation voltage (connectors – housing)	500 VDC
Protection class/type	III / IP20 (per EN 60529)
Reverse voltage protection	No
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Surrounding air temperature (operation)	–25 … +70 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	No derating
Pollution degree	2
Connection Data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Input (-); Output; Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical Data/Mechanical Data/Material Data	
Width x height x depth (mm)	45 x 90 x 115.5; Depth from upper-edge of DIN-35 rail
Mounting type	DIN-35 rail (EN 60715)
Weight	210 g
Standards and Specifications	
Approvals/standards/specifications	CE; UL 508; UL 2367; GL; EN 60950; EN 61000-6-2; EN 61000-6-3



Volume 6, WAGO Marking

Volume 6, WAGO Marking

WAGO Marking Software Smart Script
Intuitive Marking Software

Smart Script is WAGO's new software for the compact Thermal Transfer Smart Printer. The self-explanatory and intuitive software perfectly fits all control cabinet marking requirements.

Combining superior usability with a modern design, Smart Script helps the user complete the task quickly and easily with just a few clicks. For example, Smart Script can be used to easily customize type labels, as well as define and print barcodes and graphic elements.

- **Modern design:**
  Appealing and intuitive workflow
- **All applications in one Software:**
  Fast and easy to use, printer driver and all settings integrated
- **For any control cabinet marking application:**
  Professional marking of terminal blocks, labels, type plates and conductor markers

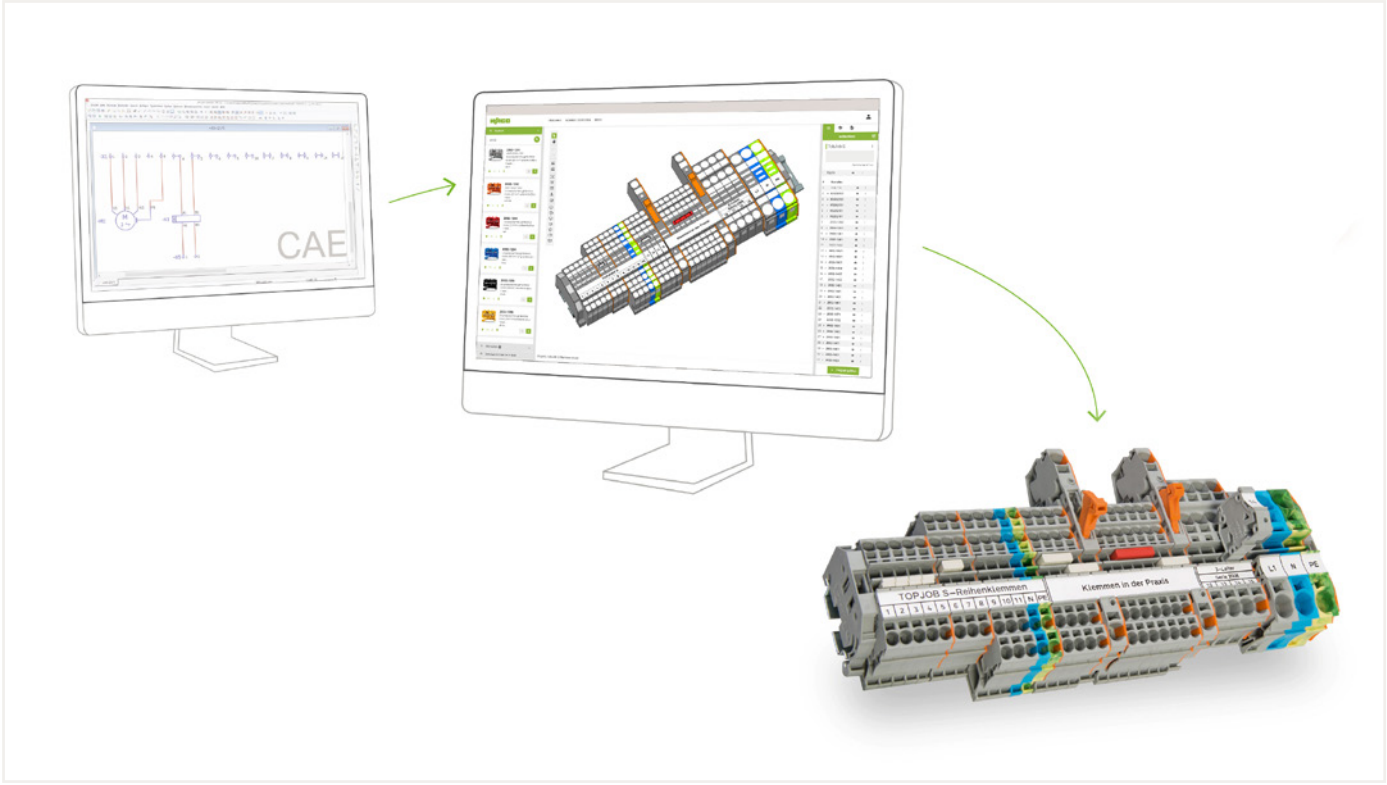
WAGO Configuration Software Smart Designer
Smart Designer in HTML5

Updated to HTML5, WAGO's Smart Designer Configuration Software comes with a new design and additional features.

The new software offers a modern and intuitive user interface for maximum usability. In addition, mobile devices are better supported, expanding the scope of applications and allowing the software to be used at any time and from anywhere. With this future-ready web application standard, WAGO offers a tool that perfectly supports the engineering process.

All known and proven functions of the previous Smart Designer version have been retained. The updated tool allows projects from different CAE planning tools to be imported via an interface and, for example, a plausibility check to be performed. Based on WAGO's expertise, a check is made as to whether the configured setup is possible and for rail-mount terminal blocks, e.g., the correct jumpers are set according to the planning.
Alternatively, a combination of rail-mount terminal blocks or a custom connector can be created directly in the software and an offer can be requested with a click.

- Future-ready web application standard
- Modern, intuitive user interface
- Better support for mobile devices
- All known functions have been retained



Cable Stripper

Never use this tool on or near live electrical circuits!

Cable knife; for Ø 8 … 28 mm / 0.31 … 1.10 inch; with a unique, changeable cable bracket system; including cable bracket

Item No.	Pack. Unit
206-1403	1

Cable knife set; for Ø 4 … 70 mm / 0.16 … 2.75 inch; including all cable brackets in a Sortimo® Box

Item No.	Pack. Unit
206-1400	1

Item-Specific Accessories

Cable bracket; for Ø 4 … 16 mm / 0.16 … 0.63 inch

206-1411 1

Cable bracket; for Ø 8 … 28 mm / 0.31 … 1.10 inch

206-1412 1

Cable bracket; for Ø 27 … 35 mm / 1.06 … 1.38 inch

206-1413 1

Cable bracket; for Ø 35 … 50 mm / 1.38 … 1.97 inch

206-1414 1

Cable bracket; for Ø 50 … 70 mm / 1.97 … 2.75 inch

206-1415 1

Accessories

Spare inside blade

206-1418 3

Spare hook blade

206-1419 1

Cable Stripper

In-socket cable stripper; for Ø 8 … 13 mm / 5/16 … 1/2 inch		
	Item No.	Pack. Unit
	206-1441	1

Universal cable stripper; for Ø 8 … 13 mm / 5/16 … 1/2 inch		
	Item No.	Pack. Unit
	206-1442	1

Data cable stripper; for Ø 4.5 … 10 mm / 3/16 … 3/8 inch		
	Item No.	Pack. Unit
	206-1451	1

Product features:
- Extra long design and improved force transmission simplifies stripping in deep device connection sockets
- Special four-blade design for an even more precise round cut
- No cutting depth adjustment required
- TiN-coated blades, TÜV/GS tested
- Ø 8 … 13 mm / 5/16 … 1/2 inch
- Strips all standard round cables, including NYM 3 x 1.5 mm²/16 AWG … 5 x 2.5 mm²/14 AWG

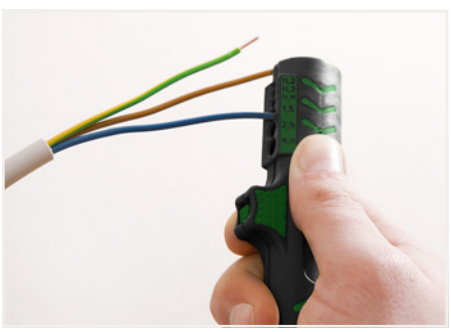
Sheath stripping: longitudinal cut

Product features:
- Secure grip achieved with soft padding for non-slip grips
- Technically improved functionality
- New locking mechanism prevents the unwanted opening of the tool
- Absolutely straightforward, quick and easy longitudinal cuts – with innovative internal cable duct
- Redesigned blade layout and intake to stop cable waste from jamming the tool
- Durable and ergonomically designed pocket clip
- Ø 8 … 13 mm / 5/16 … 1/2 inch

Product features:
- Strip outer insulation and foil sheathing with one tool
- Ideal for stripping PVC-insulated data cables with thin insulation (e.g., Cat. 5, Cat. 6, Cat. 7, twisted pair cable)
- TiN-coated blades
- Ø 4.5 … 10 mm / 3/16 … 3/8 inch

Stripping a cable sheath.

Built-in handy knife



Stripping a wire insulation.

Cable Stripper

Stripping pliers; for sensor cables; for Ø 3.2 … 4.4 mm / 0.13 … 0.17 inch		
	Item No.	Pack. Unit
	206-1481	1

Item-Specific Accessories		
Replacement blade set; for Ø 3.2 … 4.4 mm / 0.13 … 0.17 inch		
	206-1491	1

Stripping pliers; for control cables; for Ø 4.4 … 7 mm / 0.17 … 0.27 inch		
	Item No.	Pack. Unit
	206-1482	1

Item-Specific Accessories		
Replacement blade set; for Ø 4.4 … 7 mm / 0.17 … 0.27 inch		
	206-1492	1

Never use this tool on or near live electrical circuits!

The stripping pliers for sensor cables have a blade geometry specially designed for sensor cables with a smaller cross section and a working range from Ø 3.2 mm / 0.13 inch (for stranded cables and round cables with Ø 3.2 mm … 4.4 mm / 0.13 … 0.17 inch).

The stripping pliers for control cables are designed for stronger cables from Ø 4.4 mm / 0.17 inch (for stranded cables and round cables with Ø 4.4 mm … 7 mm / 0.17 … 0.27 inch).

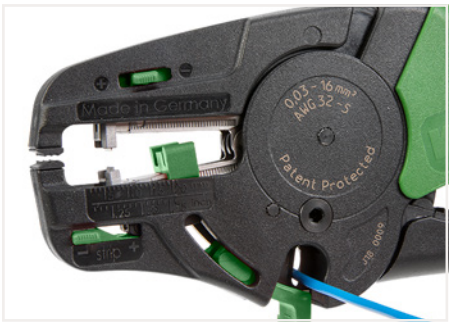
These stripping pliers quickly and safely strip cables for connecting, e.g., sensor/actuator distribution boxes, bus couplers and pluggable connectors.

Suitable for:
- Halogen-free PUR sensor/actuator cables
- Highly flexible TPE-U cables
- Control cables
- PUR cables
- PUR/PVC cables
- PVC cables
- Multi-core cables
- Shielded and unshielded cables

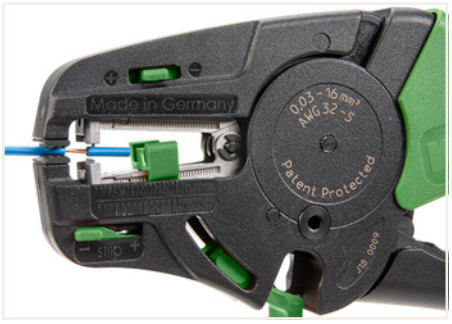
Wire Stripper

Wire stripper “Quickstrip Vario”; 0.03 … 16 mm² / 34 … 6 AWG; with wire cutter		
	Item No.	Pack. Unit
	206-1125	1

Accessories		
Blade set; Standard; 0.03 … 16 mm² / 34 … 6 AWG		
	206-1126	1
Blade set; V-blade; 0.14 … 4 mm² / 24 … 12 AWG		
	206-1127	1
Blade set; Oval blade; 10 … 16 mm² / 8 … 6 AWG		
	206-1128	1
Spare stripping stop		
	206-1129	1
Spare cut protector		
	206-1131	1
Spare clamping jaws		
	206-1132	1



Cutting a conductor.



Partially stripping a conductor.

Wire Stripper:
- Automatically adjust to conductor size
- Stripping blades cause no damage to conductor strands
- Gripping pressure of jaws adjusts automatically to conductor insulation diameter
- Clamping jaws and stripping blades automatically open once the stripping process is completed – no splaying of the conductor strands
- Exact strip length may be set by sliding black setting stop
- Stripping blades can be replaced
- Self-sharpening, fully protected cutter (replaceable)
- Entire body made of glass-fiber-reinforced polyamide
- Cutting capacity of the wire cutter of fine-stranded conductors up to 16 mm² (6 AWG)

Crimping Tool

Crimping tool “Variocrimp 4”; for insulated and uninsulated ferrules; Crimping range: 0.25 … 4 mm² (24 … 12 AWG)		
	Item No.	Pack. Unit
	206-1204	1

Spring clamp; large		
	206-1205	1

Spring clamp; small		
	206-1206	1

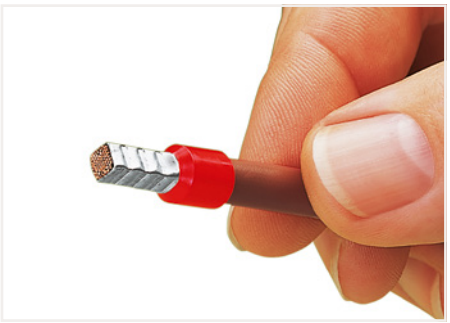
PUR spring set		
	206-1207	1

Crimping tool “Variocrimp 16”; for insulated and uninsulated ferrules; Crimping range: 6 mm² (10 AWG), 10 mm² (8 AWG) and 16 mm² (6 AWG)		
	Item No.	Pack. Unit
	206-1216	1

Spring clamp; small		
	206-1206	1

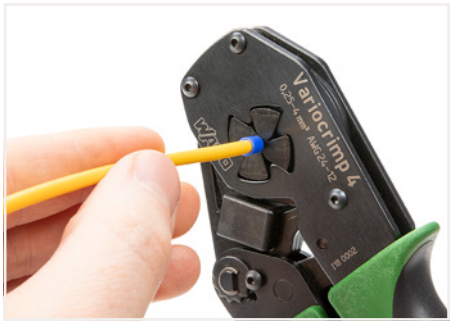
Application notes:

- The built-in crimping pressure control of “Variocrimp 4” automatically adjusts the crimping force to the conductor cross section. Select the wire gauge on “Variocrimp 16” before crimping.
- Only one crimping station is needed to handle the specified conductor range.
- Uniform, compact crimping on all four sides for high conductor retention.
- No need to center the ferrules into the terminal blocks.
- Crimping can be performed from either side (for left- or right-handed users).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomically designed handles.



A perfect gas-tight crimp – both electrically and mechanically reliable

Insert the ferruled conductor into the crimping station.



Squeeze handles until ratchet mechanism is released.

Only for “Variocrimp 16”:
Adjust conductor cross section with crimping tool in open position.

Crimping Tool

Crimping tool 25; for insulated and uninsulated ferrules; crimping range: 10 mm² (8 AWG), 16 mm² (6 AWG) and 25 mm² (4 AWG)

	Item No.	Pack. Unit
	206-1225	1

Crimping tool 50; for insulated and uninsulated ferrules; crimping range: 35 mm² (2 AWG) and 50 mm² (1/0 AWG)

	Item No.	Pack. Unit
	206-1250	1

Application notes:

- Improved crimping for higher conductor retention
- Crimping can be performed from either side (for left- or right-handed users).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomically designed handles.

Insert the ferruled conductor into the crimping station.

Squeeze handles until ratchet mechanism is released.

What is a “gas-tight” connection?

In a gas-tight connection, the conductor and the ferrule are compressed, eliminating all spaces. Under normal atmospheric conditions, neither a liquid nor gaseous medium can penetrate the crimped connection.
Oxidation between crimped single conductors is prevented, virtually eliminating the possibility of any increase in the crimped connection’s resistance. In some exceptional cases, minute, isolated spaces may be present. However, these instances can be considered as closed off due to the twisted conductor.
Inadequate crimping can allow the conductor to be pulled out of the connection. Hollow spaces also remain, permitting oxidation formation and an increase in contact resistance.
Elevated resistance is detrimental for both signal transmission (signal flow is damped) and power transmission, resulting in power loss and contact heating (risk of fire).
Crimping tools with built-in ratchets are recommended (e.g., WAGO Crimping Tools). These tools open automatically after the crimping operation is complete. Space-saving crimping from all four sides is ideal for spring clamp termination.
Ferruled conductor cross sections specified for WAGO products are based on this crimping method.

Item Number Index

Products highlighted in RED are new items for Spring 2019

Item No.	Page

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