



WAGO Automation Technology and WAGO Electronic Interface

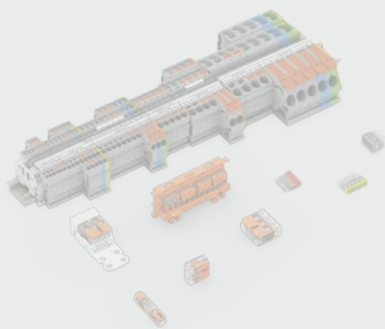
Supplementary Catalog

Edition 2024/1



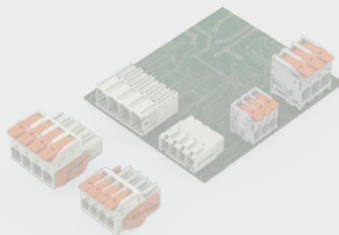
WAGO Rail-Mount Terminal Blocks and Connectors

Edition 2023/2024



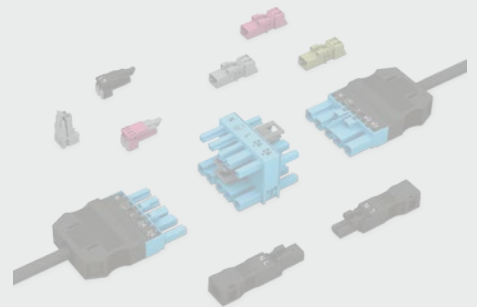
WAGO PCB Terminal Blocks and Connectors

Edition 2023/2024



WAGO Pluggable Connection System WINSTA®

Edition 2023/2024



WAGO Automation Technology

Edition 2023/2024



WAGO Interface Electronics

Edition 2023/2024

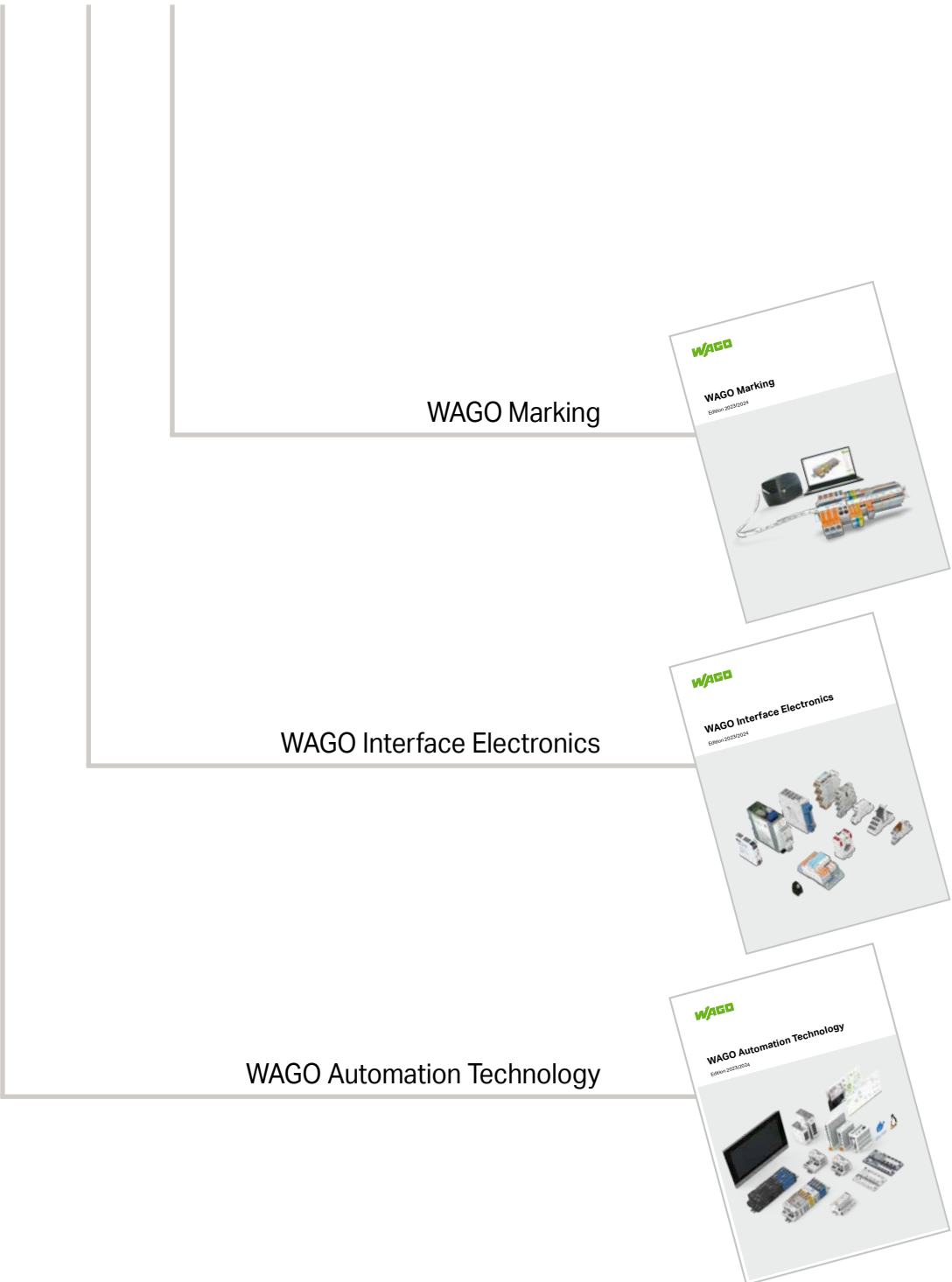


WAGO Marking

Edition 2023/2024



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



WAGO Marking






WAGO Interface Electronics



WAGO Automation Technology



Supplementary Catalog – WAGO Automation Technology and WAGO Electronic Interface

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WAGO Automation Technology

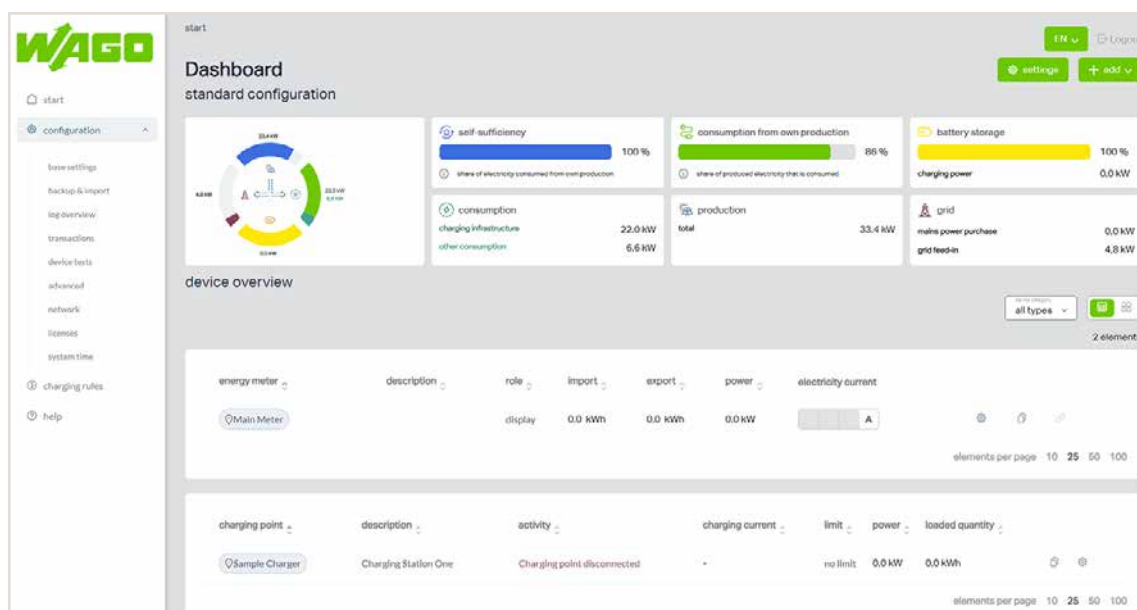
WAGO Automation Technology



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Products highlighted in RED are new items for Spring 2024

WAGO Application Load Management



The WAGO Application Load Management is a dynamic load management system for regulating the total charging power at a grid connection point that accounts for the maximum connection capacity. This solution prevents grid connection expansion and eliminates peak loads caused by EV charging. One license key is required per individual charging point. After receipt, the license key can be uploaded in the "Configuration" tab. This enables a charging point with dynamic load management. Counters are exempt from this; no additional license keys are required for them.

Functions through license activation:

- Intelligent vehicle charging through continuous power adjustment and use of all available capacities
- Manufacturer-independent and tailor-made solutions for your location
- Integration of every producer at the location (photovoltaics, CHP, etc.)
- Excess charging
- Charging processes by priority for different users (RFID)
- Electricity-price-dependent charging (Awattar & Tibber)

Compatible WAGO Controllers:

- 751-9301: WAGO Compact Controller 100
- 752-8303/8000-002: WAGO Edge Controller
- 750-821x: WAGO Controller PFC200; G2
- 750-821x/040-000: WAGO Controller PFC200; G2; XTR

Activate and download license keys:

<https://walm.license.wago.com/>

Item Description	
	Item No.
Application Load Management; Basic Software	8101-2000/000-025
Application Load Management; charging points	
1 charging point	8101-2000/000-021
5 charging points	8101-2000/000-022
15 charging points	8101-2000/000-023
30 charging points	8101-2000/000-024
Compatible Devices	
WAGO Compact Controller 100	751-9301
WAGO Edge Controller	752-8303/8000-002
WAGO Controller PFC200; G2	750-821x
WAGO Controller PFC200; G2; XTR	750-821x/040-000

Delivery type	License certificate and download link of the software via email
For data sheet and additional information, see:	wago.com/8101-2000/000-02x

WAGO Load Management Controller; Hardware + Software Bundle



The WAGO Load Management Controller, with the pre-installed WAGO Application Load Management, is a dynamic load management system for regulating the total charging power at a grid connection point that accounts for the maximum connection capacity. This solution prevents grid connection expansion and eliminates peak loads caused by EV charging.

One license key is required per individual charging point. After receipt, the license key can be uploaded in the "Configuration" tab. This enables a charging point with dynamic load management. Counters are exempt from this; no additional license keys are required for them.

- Functions through license activation:
- Intelligent vehicle charging through continuous power adjustment and use of all available capacities
 - Manufacturer-independent and tailor-made solutions for your location
 - Integration of every producer at the location (photovoltaics, CHP, etc.)
 - Excess charging
 - Charging processes by priority for different users (RFID)
 - Electricity-price-dependent charging (Awattar & Tibber)

Compatible licenses (charging points):

- 8101-2000/000-021 Application Load Management; 01 charging point
- 8101-2000/000-022 Application Load Management; 05 charging points
- 8101-2000/000-023 Application Load Management; 15 charging points
- 8101-2000/000-024 Application Load Management; 30 charging points

Activate and download license keys:
<https://walm.license.wago.com/>

Item Description	Item no.
Load Management Controller; Hardware + Software Bundle	8103-2000/000-002

The Load Management Controller Bundle includes:

Application Load Management; Basis Software	8101-2000/000-025
WAGO Compact Controller 100	751-9301

WAGO Library Analytics



Analytics Connection Directly from the PLC Program
WAGO Library Analytics makes it easy to leverage optimization potential.
 The new "WAGO Library Analytics" software solution for WAGO Controllers allows you to analyze, evaluate and optimize processes without leaving the familiar PLC programming environment.

You can use WAGO Library Analytics without entering the IT and Linux® environment directly; numerous function modules support data acquisition, analysis, and evaluation. The analysis, evaluation and optimization functions run in the background on high-performance WAGO Edge Computers. A ready-to-run installation package is available for these devices. All the data stays within the local network, so no Internet connection to additional systems is necessary. Additional data sources can be connected conveniently via Node-RED, for example. Tools like Grafana can be used for visualization, allowing you to view data quickly and easily in dashboards. Misconduct in the process can be identified by anomaly detection. Process values can be predicted by a time series forecast. Furthermore, gradual changes can be detected by trend and drift detection. The integration of individual data analysis is possible by integrating pre-trained machine learning models. In addition, custom functionalities can be implemented and integrated into Python.

Typical applications for WAGO Library Analytics include analyzing production processes with regard to optimization potential, monitoring machine states and implementing predictive maintenance intervals.

- Your Benefits:
- An easy way to start with process data analysis
 - Support throughout all analysis project phases
 - Quick and easy data visualization

Link to download:
https://www.wago.com/de/d/swreg_wago_application_analytics_c

Item Description	
	Item No.
Library Analytics; Single License; Online activation	2759-2320/211-1000
Compatible Devices	
WAGO Edge Computer	752-9xxx

Delivery type	License certificate by email (software available for download)
For data sheet and additional information, see:	wago.com/2759-2320/211-1000

WAGO Analytics Starter Kit



The Base Starter Kit for WAGO Analytics offers a suitable bundle to orient you to the scope of functions of the WAGO Analytics Library. This starter kit offers the hardware and the appropriate controller license to begin analyzing process data.

The IP67 Starter Kit with IO-Link for WAGO Analytics offers a suitable bundle to equip systems, such as motors, pumps, conveyor systems or fans, with suitable sensors and to familiarize yourself with the scope of functions within the WAGO Analytics Library.

This starter kit offers the hardware and the appropriate controller license to analyze the vibration and temperature values of the included sensor and

other process data. This digital output module can react to detected anomalies caused by signals or switching operations, for example.

WAGO Library Analytics offers the following functionalities:

- Node-Red integration
- Data recording and visualization
- Anomaly detection
- Trend and drift detection
- Integration of machine learning models
- Integration of Python code

Item Description	Item No.
WAGO Analytics Starter Kit Base	2849-7000/000-029

The Base Starter Kit for WAGO Analytics contains:

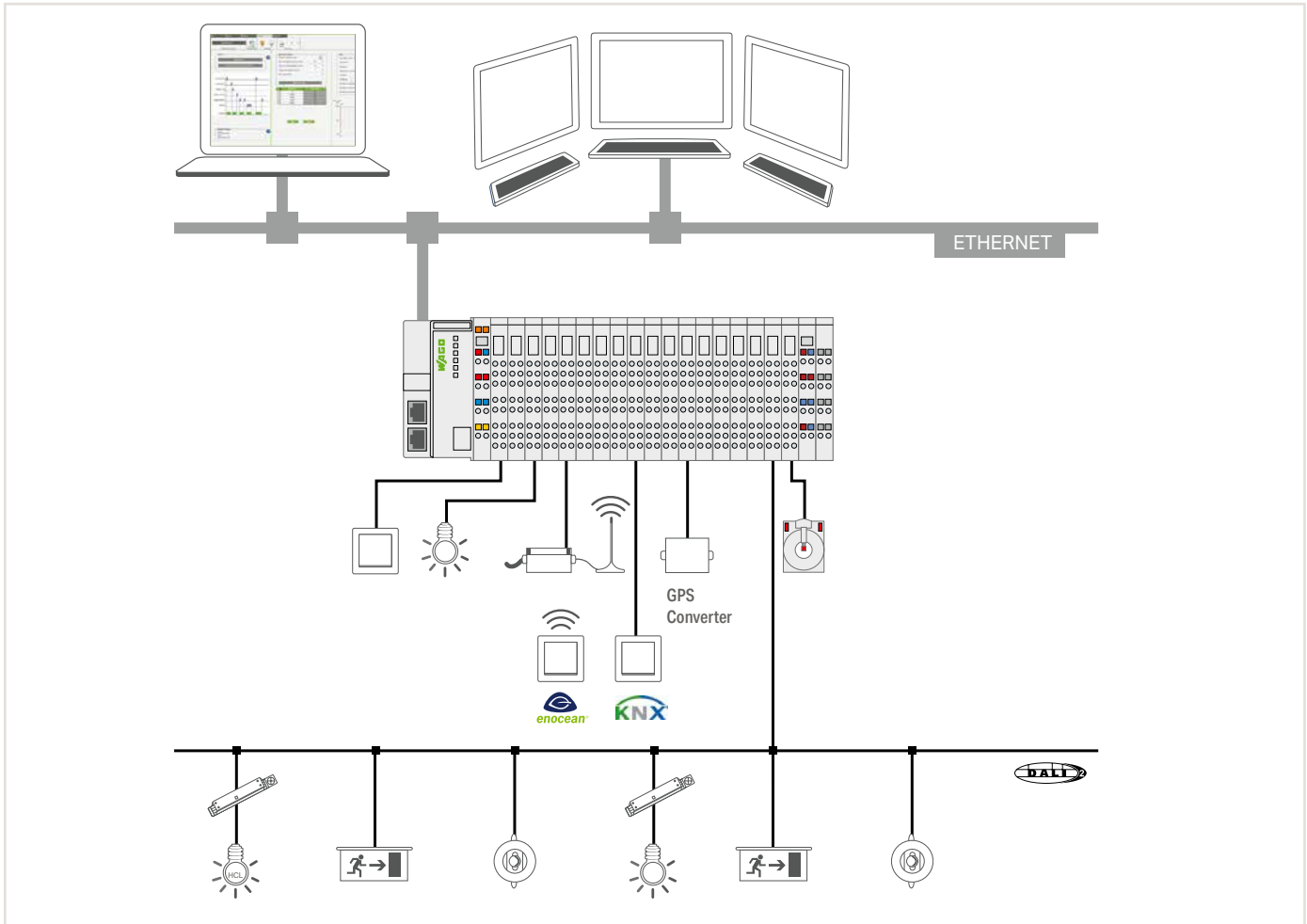
Wago Library Analytics	2759-2320/211-1000
Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485	750-8212
2-channel digital output; 24 VDC; 0.5 A	750-501
End Module	750-600
Edge Computer	752-9400
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 4 A output current; DC OK signal	787-1616
Operating tool; Blade: 3.5 x 0.5 mm	210-720
Operating tool; Blade: 2.5 x 0.4 mm	210-719
2 x ETHERNET cable; RJ45, axial locking; RJ45, axial locking; Cat. 6A; Length: 1 m	756-1250/1023-010
Sliders with DIN-rail; Pluggable connectors; Small device connecting cable 2 x 1.0 mm ² black; Wire line H05 V-K 0.75 BLUE	

Item Description	Item No.
WAGO Analytics Starter Kit IP67 with IO-Link	2849-7000/000-030

The IP67 Starter Kit with IO-Link for WAGO Analytics contains:

Wago Library Analytics	2759-2320/211-1000
Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485	750-8212
2-channel digital output; 24 VDC; 0.5 A	750-501
End Module	750-600
Edge Computer	752-9400
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 4 A output current; DC OK signal	787-1616
Operating tool; Blade: 3.5 x 0.5 mm	210-720
Operating tool; Blade: 2.5 x 0.4 mm	210-719
3 x ETHERNET cable; RJ45, axial locking; RJ45, axial locking; Cat. 6A; Length: 1 m	756-1250/1023-010
4-Port IO-Link Master Class A; EtherNet/IP; DC 24 V / 2.0 A; 4xM12 connection; SlimLine	765-4503/100-000
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 2 m	756-1203/060-020
Power cable; M12L socket; straight; 5-pole; Length: 2 m	756-3501/050-020
Accessories; 4-pole	756-9504/040-000
2 x Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray	249-116
2 x End and intermediate plate; 0.8 mm thick; orange	2002-1492
2 x 4-conductor through terminal block; with push-button; 1.5 mm ²	2201-1401
Sliders with DIN-rail; Pluggable connectors; Small device connecting cable 2 x 1.0 mm ² black; Wire line H05 V-K 0.75 BLUE; SICK MPB10-VS00VSIQ00 Condition Monitoring Sensor; BEF-APM-MPB Magnetic Mounting Plate, SICK Condition Monitoring Sensor	

WAGO Lighting Management Application



WAGO Lighting Management is a proven solution based on predefined hardware and preconfigured software, which greatly simplifies planning, commissioning and operation. The basic idea: WAGO Lighting Management is ready for the vastly different light requirements of warehouses and production facilities. For example, a production facility is divided into virtual rooms in which the light can be flexibly adapted. Each virtual room receives signals from sensors and actuators in order to automatically set the appropriate light intensity. Virtual rooms allow both conversions and remodeling to be implemented quickly and simply via Web configuration. A separate HTML5 user interface is available for convenient and intuitive operation of WAGO Lighting Management. Operation is optimized for display on different end devices, such as tablets, smartphones and touch panels.



Item Description		
		Item No.
Lighting Management Application; Single License; Online Activation; up to 10 DALI lines		2759-204/261-1000
Lighting Management Application S; Single License; Online Activation; up to 2 DALI lines, includes Lighting Management Visualization S		2759-205/261-1000
Lighting Management Visualization; Single License; Online Activation		
Visualization – S	1 controller	2759-2101/271-1000
Visualization – M	up to 3 controllers	2759-2102/271-1000
Visualization – L	up to 10 controllers	2759-2103/271-1000
Compatible Controllers/Touch Panels		
Controller PFC200; G2; 2ETH RS		750-8212
Touch Panel 600 Advanced Line; PIO3		762-53xx/8000-002

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

Delivery type	License certificate by email (software available for download)
Data sheet and additional information, see:	wago.com/2759-204/261-1000 wago.com/2759-205/261-1000 wago.com/2759-210x/271-1000 wago.com/lighting-management

The "Lighting Management" software is a pre-programmed application based on the CODESYS Development Environment and can be used for both PFC200 G2 Controllers or Touch Panels 600.

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

The products listed below are typically used in conjunction with the "Lighting Management" Application. Detailed information about the products, as well as other variants and accessories, can be found in our Full Line Catalog, Volume 3 or Volume 4.

Lighting Management Application		
Required Products	Description	Item No.
Base Unit		
DALI Multi-Master	In addition to 64 DALI actuators (ECGs), a DALI Multi-Master Module supports up to 16 DALI Multi-sensors (max. 64 sensor addresses); max. 10 DALI modules per base package.	753-647
End Module	An end module must be snapped onto the assembly at the end of a fieldbus node.	750-600
Power Supply to I/O Node	24 VDC power supply to controllers and additional modules	787-1012
Power Supply to DALI Multi-Master	Supplies a maximum of five DALI Multi-Master modules	787-1007
Extension for Inputs/Buttons		
16-Channel Digital Input; 24 VDC; 3 ms	For 1...16 light button/switch inputs; max. 4 extensions per base package	750-1405
Extension for Outputs/Actuators		
16-Channel Digital Output; 24 VDC; 0.5 A	For 1 ... 16 actuators/lamps/relays/ECG control; max. 2 extensions per base package	750-1504
Socket with Relay and Status Indicator; 1 Make Contact; 24 VDC	Light switching via relay	788-357
Extension for EnOcean Radio		
RS-232/-485 Serial Interface	Serial interface connects to STC65-RS-485 EVC EnOcean Radio Transmitter/Receiver (for 1 ... 64 rocker switches)	750-652
EnOcean Receiver/Transmitter	Receives EnOcean radio signals and transmits them to the I/O node	2852-7101
EnOcean Repeater	Extends the transmission range (for more planning information, visit the EnOcean website)	2852-7102
Radio Transmitter; EnOcean easyfit PTM 250; 2-Channel Lighting Control	1 ... 2 or 1 ... 4 signals; range of 30 meters from the radio receiver in buildings	758-940/001-000
Radio Transmitter; EnOcean easyfit PTM 250; 4-Channel Lighting Control		758-940/003-000
Extension for External Time Request		
GPS DCF Converter	Converter/external receiver for time synchronization	2852-7901
Extension for Energy Data Measurement		
3-Phase Power Measurement; 690 VAC	The 3-Phase Power Measurement Module (750-495) measures electrical data in a three-phase supply network.	750-495/xxx-xxx
Current and Voltage Connections	Pre-assembled terminal block assemblies for easy connection and short-circuiting of current transformers (for current transformers, see Full Line Catalog, Volume 4)	2007-8874; 2007-8877
Extension for KNX Buttons		
KNX/EIB/TP1 Interface	Connects KNX buttons to the I/O node; max. 1 module per base package	753-646
Extension for Sensors (DALI-2)		
DALI Sensor; PD11-BMS-FLAT	LOW BAY Sensor for offices (2 ... 5 m)	2852-7210
DALI Sensor; PD4-BMS-GH	HIGH BAY Sensor for warehouses (5 ... 16 m)	2852-7213
DALI Sensor; PD4N-BMS	MID BAY Sensor for open-plan offices, underground garages, entrance halls, production facilities (2 ... 10 m)	2852-7214
Adapter; AP Assembly Kit IP54; Accessories for 2852-7214	Accessories for surface mounting of the PD4N-BMS (B.E.G.)	2852-7215
DALI Sensor; MSensor G3 SRC 30 PIR 5DPI WH	LOW BAY Sensor for offices (up to 5 m)	2852-7220
DALI Sensor; MSensor G3 SSM 30 10DPI WH	MID BAY Sensor for high-ceiling rooms (up to 10 m)	2852-7221
DALI Sensor; IR Quattro HD DALI-2	LOW/MID BAY Sensor for offices (2.5 ... 10 m)	2852-7230
DALI Sensor; IR Quattro SLIM XS DALI-2	LOW BAY Sensor for offices, slim design (2.5 ... 4 m)	2852-7231
DALI Sensor; IS3360 MX HIGH BAY DALI-2	HIGH BAY Sensor for industrial buildings, circular detection range (4 ... 14 m)	2852-7232
DALI Sensor; IS345 MX HIGH BAY DALI-2	HIGH BAY Sensor for industrial buildings, rectangular detection range (4 ... 14 m)	2852-7233
DALI XC G3 (DALI-2)	Push-button coupler connects 4 conventional push-buttons to DALI	2852-7225
DALI Sensors		
DALI Multi-Sensor Kit	Brightness measurement and motion sensor: Kit connects to a DALI bus system	2851-8201
DALI Sensor Coupler	Sensor coupler connects MULTI-3-CI Sensors to DALI (max. 16 DALI Sensor Couplers per 753-647 DALI Multi-Master)	2851-8202
DALI HIGHBAY ADAPTER + HIGH BAY	Brightness measurement and motion sensor for large installation heights (3 ... 13 m)	2852-7207, 2852-7201
DALI HIGHBAY ADAPTER + VISION	Motion sensor for large areas, open offices, hallways or warehouses	2852-7207, 2852-7202
DALI LS/PD LI	Motion sensor for office lighting (1 ... 5 m)	2852-7203
DALI Sensor Coupler HF LS LI +	Light and recessed ceiling sensor: combined daylight and motion detection, motion detection via radar	2852-7205
Radar Sensor HF LS LI		2852-7206
4p4c Connection Cable, 50 cm		2852-7208
DALI XC	Push-button coupler connects 4 conventional push-buttons to DALI	2852-7301
DALI Sensor Coupler E	Sensor coupler connects standard sensors to DALI	2852-7204

WAGO Monitoring Solution



WAGO Monitoring Solution (WMS) is a flexible monitoring and visualization tool for energy data and industrial parameters. This tool does not limit the number of measurement devices and data points to be integrated, and the solution can be tailored to specific customer needs and evolving processes – both in the cloud and on-premises. This includes parameters such as air pressure, operating times and other performance limits.

As an energy monitoring and control solution, WMS consists of measurement devices and controllers that can be planned and configured in the software. Visualization, analyses and alarms can be created from the collected data. The measured energy data can be analyzed, evaluated and contextualized for specific users. Thus, users can determine potential savings and prevent peak loads via configurable reports.

A dedicated alarm management interface with an integrated ticket system allows users to configure alarms and send notifications via push messages, email or preferred messaging services. The management function can also provide for (automated) switching on and off of machines/devices and changing of status values (thermostats, circuit breakers, relays).

The solution becomes a knowledge base for measurements, thanks to the integrated document management and financial module with fully customizable reports that meet all technical requirements and the company's needs. The solution serves as a valuable and comprehensive analysis tool by integrating reports together with third-party systems such as Microsoft Power BI.

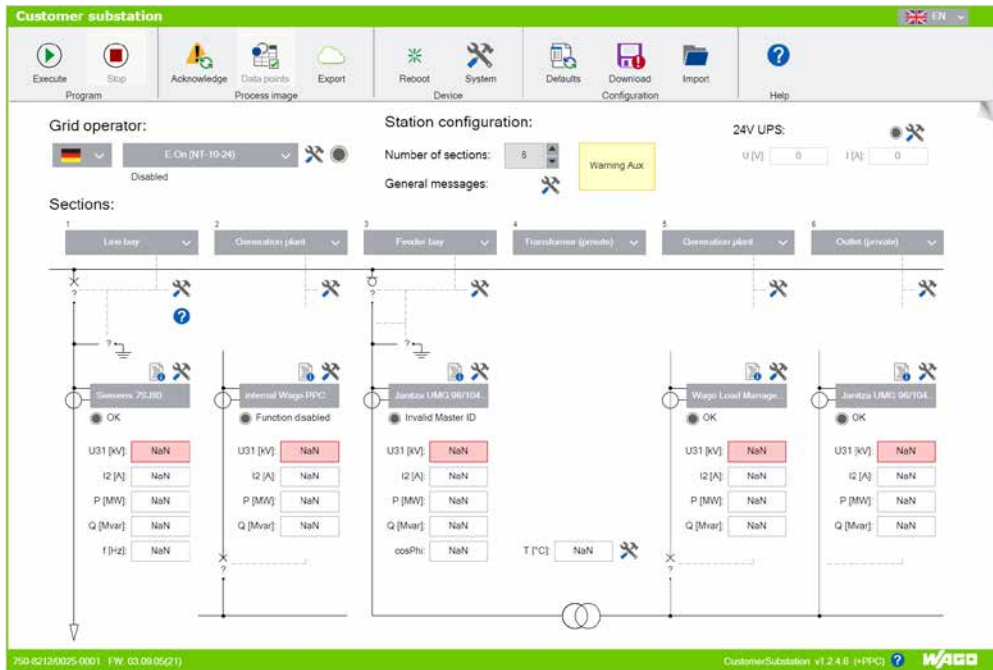
Your Benefits:

- Flexible monitoring and visualization tool for energy data and industrial parameters
- Flexible integration of hardware, software and data into existing systems
- Open to ERP interfaces, industrial bus systems and third-party devices

Item Description	Item No.
WAGO Monitoring Solution; Server License S; Single License; Online activation	2760-1031/1000-3100
WAGO Monitoring Solution; Server License L; Single License; Online activation	2760-1031/1000-3200

Delivery type	License certificate by email (software available for download)
For data sheet and additional information, see:	wago.com/2760-1031/1000-3100 wago.com/2760-1031/1000-3200

WAGO Application Customer Substation



WAGO Application Customer Substation allows customer systems to communicate with the regional grid operator (control system) in compliance with the IEC 60870-5-101 or IEC 60870-5-104 guidelines.

Measured values like voltage, reactive power, active power and station parameters (position messages) are determined and monitored.

The application enables automatic mapping of the respective data points according to the grid operators' technical connection requirements (TCRs).

The station can be customized depending on the number of sections.

The application connects all relevant measurement and protection systems.

For standard devices, communication templates are stored for easy configuration. Optionally, data can also be transmitted to a cloud (MQTT).

A direct marketer interface is available.

Available Options:

A certified PGP controller (Item No. 2759-203/211-1000) can be activated and connected to various actuators if desired.

The WagoAppRTU_Slaves library on which the application is based provides simple function blocks for use with specific power system operators.

They enable customer systems to communicate with the grid operator per IEC 60870-5-101 or IEC 60870-5-104.

Supported grid operators: E.ON (Avacon Netz, Bayernwerk Netz, Schleswig Holstein Netz, E.DIS Netz); EWE NETZ; Netze BW; Westnetz, VSE; WEMAG; Mitnetz and SachsenNetze. Note: Additional information available upon request!

Complete Solutions:

Control Cabinet Customer Substation; Standard (Item No. 8007-100/1000-247): Design according to the TCR of the grid territories of E.ON and grid subsidiaries (AVACON, E.DIS, SH Netz, Bayernwerk), Westnetz, Wemag Netz, NetzeBW, EWE

Control Cabinet Customer Substation; combination, incl. protection (Item No. 8007-100/1000-270): Design according to the TCR of the grid territories of E.ON and grid subsidiaries (AVACON, E.DIS, SH Netz, Bayernwerk), Westnetz, Wemag Netz, NetzeBW, EWE

Includes protective devices: - SEG MRA4; - NA-protection Ziehl UFR1001E

Note: Other protective devices upon request!

Functions:

Control sections

- Input panel (1-n)
- Transfer panel/grid connection point
- Metering panel
- Disconnectors, HH fuses
- Power plants (various energy types)
- Additional generating units

Item Description	Item No.
Customer Substation Application; Single License; Online activation	2759-2018/261-1000
Supported Hardware	
PFC200; G2; 4ETH	750-8210
PFC200; G2; 4ETH; T	750-8210/025-000
PFC200; G2; 4ETH; XTR	750-8210/040-000
PFC200; G2; 2ETH 2SFP	750-8211
PFC200; G2; 2ETH 2SFP; XTR	750-8211/040-000
PFC200; G2; 2ETH RS	750-8212
PFC200; G2; 2ETH RS; TELE; T	750-8212/025-001
PFC200; G2; 2ETH RS; TELE; T; ECO	750-8212/025-002
PFC200; G2; 2ETH RS; XTR	750-8212/040-000
PFC200; G2; 2ETH RS; Tele; XTR	750-8212/040-001
PFC200; G2; 2ETH M12; RS; XTR	750-8212/040-010
PFC200; G2; 2ETH RS; 4G	750-8217
PFC200; G2; 2ETH RS; 4G; T	750-8217/025-000

Delivery type	License certificate by email (software available for download)
For data sheet and additional information, see:	wago.com/2759-2018/261-1000

WAGO IoT Box; Energy with Compact Controller 100 (751-9301)



The IoT Box Energy and the IoT Box Energy (MID) are aimed at energy and facility managers of new or existing industrial and building systems. The new Energy products make energy monitoring, data analysis, identification of optimization potentials and predictive maintenance very user-friendly. The core function of the Energy (MID) Boxes is recording energy data using an energy measurement device (3-phase measurement module or MID meter), as well as other measured values via CC100 and transmitting the data to higher-level management systems. Thanks to the MID approval, the IoT Box Energy (MID) can also support consumption billing.

Your Benefits:

- Quick start to digitalization
- Quick and flexible project implementation via pre-wired and open automation system
- Compact design replaces individual components to save space

Item Description	Item No.
WAGO IoT Box; Energy	2854-099/000-005
The IoT Box includes:	
Compact Controller 100; 8DI 4DO 2AI 2AO 2NI1K/PT1K 1RS485; 2 x ETHERNET; SD	751-9301
3-phase power measurement module; 3x277/480 V/RC; Modbus RTU	2857-570/024-000
Power supply; Compact; 1-phase; 24VDC 1.25A 1ph	787-2850
3-conductor through terminal block; with lever and push-button; 2.5 mm ² ; gray	2102-5301
3-conductor through terminal block; with lever and push-button; 2.5 mm ² ; blue	2102-5304
3-conductor ground terminal block; with lever and push-button; 2.5 mm ² ; green-yellow	2102-5307
4-conductor ground terminal block; with push-button; 2.5 mm ² ; green-yellow	2202-1407
Set of wall-mount lugs	
Cable grips M20; M25	
Connectors (plug and socket) for power supply	

ETHERNET protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP, HTTPS, SSH
Configuration options	CODESYS V3.5 Ethernet Settings Web-Based Management WAGOupload WAGO Solution Builder
Dimensions W x H x D	300 x 200 x 120
Weight	5.3 kg
Conformity marking	CE
Ambient temperature (operation)	0 ... 51 °C
Protection type	IP54
Pollution degree	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

WAGO IoT Box; Energy MID with Compact Controller 100 (751-9301)



The IoT Box Energy and the IoT Box Energy (MID) are aimed at energy and facility managers of new or existing industrial and building systems. The new Energy products make energy monitoring, data analysis, identification of optimization potentials and predictive maintenance very user-friendly. The core function of the Energy (MID) Boxes is recording energy data using an energy measurement device (3-phase measurement module or MID meter), as well as other measured values via CC100 and transmitting the data to higher-level management systems. Thanks to the MID approval, the IoT Box Energy (MID) can also support consumption billing.

Your Benefits:

- Quick start to digitalization
- Quick and flexible project implementation via pre-wired and open automation system
- Compact design replaces individual components to save space

Item Description	Item No.
WAGO IoT Box; Energy MID	2854-099/000-008
The IoT Box includes:	
Compact Controller 100; 8DI 4DO 2AI 2AO 2NI1K/PT1K 1RS485; 2 x ETHERNET; SD	751-9301
Energy meter (MID); for direct connection; 65A; 3x230/400V; 50Hz; Modbus® and M-Bus; 2 x S0 interface; 4PU	879-3000
Power supply; Compact; 1-phase; 24VDC 1.25A 1ph	787-2850
3-conductor through terminal block; with lever and push-button; 2.5 mm ² ; gray	2102-5301
3-conductor through terminal block; with lever and push-button; 2.5 mm ² ; blue	2102-5304
3-conductor ground terminal block; with lever and push-button; 2.5 mm ² ; green-yellow	2102-5307
4-conductor ground terminal block; with push-button; 2.5 mm ² ; green-yellow	2202-1407
Set of wall-mount lugs	
Cable grips M20; M25	
Connectors (plug and socket) for power supply	

ETHERNET protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP, HTTPS, SSH
Configuration options	CODESYS V3.5 Ethernet Settings Web-Based Management WAGOupload WAGO Solution Builder
Dimensions W x H x D	300 x 200 x 120
Weight	5.3 kg
Conformity marking	CE
Ambient temperature (operation)	0 ... 51 °C
Protection type	IP54
Pollution degree	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

WAGO IoT Box; Flex Gateway LAN with Controller PFC200 (750-8212)



The IoT Box Flex Gateway LAN and IoT Box Flex Gateway 4G are characterized by maximum configuration flexibility. The user can order a box containing basic automation components and expand them as needed. That's why there's plenty of scope for hardware expansions with the Flex products. The pre-configured base provides the existing system operator with a customizable basic structure for communication via LAN or 4G, which can be adapted at any time.

Item Description	Item No.
WAGO IoT Box; flex Gateway LAN	2854-099/000-006
The IoT Box includes:	
Controller PFC200; 2nd generation; 2 x ETHERNET, RS-232/-485	750-8212
Power supply; Pro 2; 1-phase; Output voltage: 24 VDC; Output current: 5 A; TopBoost + PowerBoost; communication-capable	2787-2144
3-conductor ground terminal block; with push-button; 10 mm ² ; green-yellow	2210-1307
4-conductor through terminal block; with push-button; 2.5 mm ² ; blue	2022-1404
4-conductor ground terminal block; with push-button; 2.5 mm ² ; green-yellow	2202-1407
Double-deck terminal block; with push-button; Through/through terminal block; 2.50 mm ² ; gray	2202-2701
End module	750-600
Set of wall-mount lugs	
Cable grips M16; M20; M25; M32	
Connectors (plug and socket) for power supply	

ETHERNET protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP, HTTPS, SSH
Configuration options	CODESYS V3 e!COCKPIT WAGO-I/O-CHECK Web-Based Management e!RUNTIME Library CODESYS Library WAGOupload WAGO Solution Builder
Dimensions W x H x D	600 x 400 x 210
Weight	17.8 kg
Conformity marking	CE
Ambient temperature (operation)	0 ... 51 °C
Protection type	IP54
Pollution degree	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

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

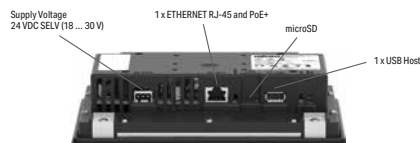


The IoT Box Flex Gateway LAN and IoT Box Flex Gateway 4G are characterized by maximum configuration flexibility. The user can order a box containing basic automation components and expand them as needed. That's why there's plenty of scope for hardware expansions with the Flex products. The pre-configured base provides the existing system operator with a customizable basic structure for communication via LAN or 4G, which can be adapted at any time.

Item Description	Item No.
WAGO IoT Box; flex Gateway 4G	2854-099/000-007
The IoT Box includes:	
Controller PFC200; 2nd generation; 2 x ETHERNET, RS-232/-485; 4G cellular module	750-8217
Power supply; Pro 2; 1-phase; Output voltage: 24 VDC; Output current: 5 A; TopBoost + PowerBoost; communication-capable	2787-2144
3-conductor ground terminal block; with push-button; 10 mm ² ; green-yellow	2210-1307
4-conductor through terminal block; with push-button; 2.5 mm ² ; blue	2022-1404
4-conductor ground terminal block; with push-button; 2.5 mm ² ; green-yellow	2202-1407
Double-deck terminal block; with push-button; Through/through terminal block; 2.50 mm ² ; gray	2202-2701
End module	750-600
Magnetic-mount antenna	758-975
Set of wall-mount lugs	
Cable grips M16; M20; M25; M32	
Connectors (plug and socket) for power supply	

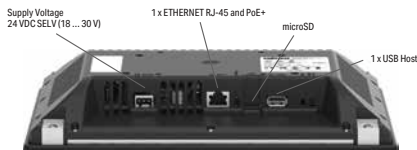
ETHERNET protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP, HTTPS, SSH
Configuration options	CODESYS V3 <i>e!COCKPIT</i> WAGO-I/O-CHECK Web-Based Management <i>e!RUNTIME</i> Library CODESYS Library WAGOupload WAGO Solution Builder
Dimensions W x H x D	600 x 400 x 210
Weight	17.8 kg
Conformity marking	CE
Ambient temperature (operation)	0 ... 51 °C
Protection type	IP54
Pollution degree	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

Web Panel 400 ▶ 17.8 cm (7 inches)



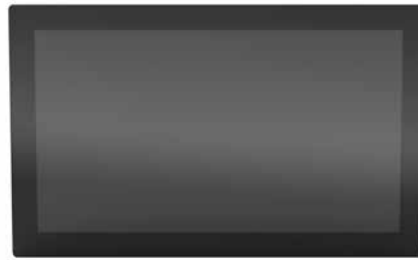
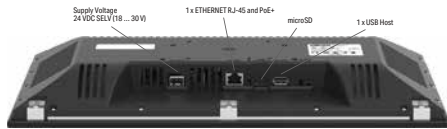
Item Description	Web Panel 400; 17,8 cm (7"), 1024 x 600 Pixel; 1 x USB; 1 x ETHERNET, Web Panel
Item no.	762-3403
Technical data	
Display	capacitive touchscreen
Display diagonal	17.8 cm (7 inches)
Contrast ratio	800:1
Display colors	16 million colors
Graphics resolution	(1024 x 600) px
Viewing angle (horizontal/vertical)	80° / 80°
Brightness	600 cd/m ²
Visualization	Web server
Communication	Web browser (HTML5)
ETHERNET protocols	DHCP; DNS; FTP; FTPS; HTTP; HTTPS; SSH
Operating system	Real-time Linux (with RT-Preempt patch)
Processor	ARM Cortex-A53 Quadcore 4 x 1.6 GHz
Main memory (RAM)/internal memory (flash)	2 GB / 4 GB
Type of memory card	microSD (max. 2 GB); microSDHC (max. 32 GB)
Dimensions W x H x D	(194 x 130 x 44.5) mm
Panel cutout (W x H)	(186 x 122) mm
Mounting type	Clamping elements (included) or VESA mount (4 x M4x8)
Supply voltage	24 VDC, SELV (18 ... 31.2 V); with reverse voltage protection or Power over Ethernet (PoE+) via ETHERNET RJ-45 connector
Operating power	11.6 W, without USB load; 16.8 W, with USB load
Ambient temperature (operation)	0 ... +50 °C
For data sheet and additional information, see:	wago.com/762-3403

Web Panel 400 ► 25.7 cm (10.1 inches)



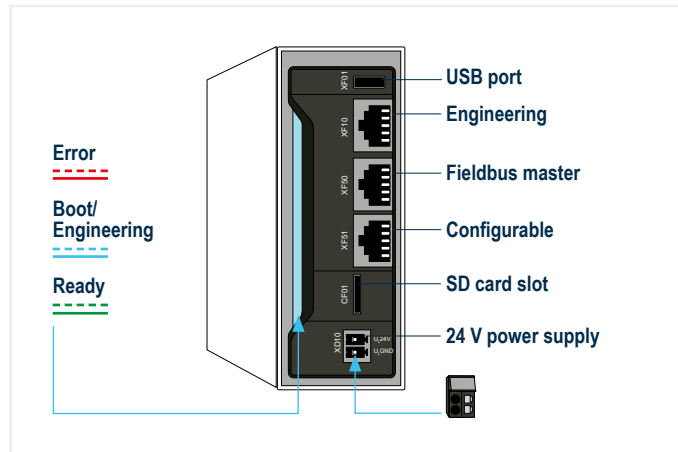
Item Description	Web Panel 400; 25,7 cm (10.1"), 1280 x 800 Pixel; 1 x USB; 1 x ETHERNET, Web Panel
Item no.	762-3404
Technical data	
Display	capacitive touchscreen
Display diagonal	25.7 cm (10.1 inches)
Contrast ratio	800:1
Display colors	16 million colors
Graphics resolution	(1280 x 800) px
Viewing angle (horizontal/vertical)	85° / 85°
Brightness	1000 cd/m ²
Visualization	Web server
Communication	Web browser (HTML5)
ETHERNET protocols	DHCP; DNS; FTP; FTPS; HTTP; HTTPS; SSH
Operating system	Real-time Linux (with RT-Preempt patch)
Processor	ARM Cortex-A53 Quadcore 4 x 1.6 GHz
Main memory (RAM)/internal memory (flash)	2 GB / 4 GB
Type of memory card	microSD (max. 2 GB); microSDHC (max. 32 GB)
Dimensions W x H x D	(263 x 184 x 44.5) mm
Panel cutout (W x H)	(254 x 176) mm
Mounting type	Clamping elements (included) or VESA mount (4 x M4x8)
Supply voltage	24 VDC, SELV (18 ... 31.2 V); with reverse voltage protection or Power over Ethernet (PoE+) via ETHERNET RJ-45 connector
Operating power	11.6 W, without USB load; 16.8 W, with USB load
Ambient temperature (operation)	0 ... +50 °C
For data sheet and additional information, see:	wago.com/762-3404

Web Panel 400 ► 39.6 cm (15.6 inches)



Item Description	Web Panel 400; 39,6 cm (15.6"), 1920 x 1080 Pixel; 1 x USB; 1 x ETHERNET, Web Panel
Item no.	762-3405
Technical data	
Display	capacitive touchscreen
Display diagonal	39.6 cm (15.6 inches)
Contrast ratio	1000:1
Display colors	16 million colors
Graphics resolution	(1920 x 1080) px
Viewing angle (horizontal/vertical)	89° / 89°
Brightness	500 cd/m ²
Visualization	Web server
Communication	Web browser (HTML5)
ETHERNET protocols	DHCP; DNS; FTP; FTPS; HTTP; HTTPS; SSH
Operating system	Real-time Linux (with RT-Preempt patch)
Processor	ARM Cortex-A53 Quadcore 4 x 1.6 GHz
Main memory (RAM)/internal memory (flash)	2 GB / 4 GB
Type of memory card	microSD (max. 2 GB); microSDHC (max. 32 GB)
Dimensions W x H x D	(392 x 242 x 44.5) mm
Panel cutout (W x H)	(385 x 232) mm
Mounting type	Clamping elements (included) or VESA mount (4 x M4x8)
Supply voltage	24 VDC, SELV (18 ... 31.2 V); with reverse voltage protection or Power over Ethernet (PoE+) via ETHERNET RJ-45 connector
Operating power	11.6 W, without USB load; 16.8 W, with USB load
Ambient temperature (operation)	0 ... +50 °C
For data sheet and additional information, see:	wago.com/762-3405

Edge Devices ► Edge Controller



The WAGO Edge Controller 400, with its multi-core CPU performance, is a flexible and open control platform for many applications. Applications in energy, industrial IoT and general automation can be flexibly deployed using the Linux®-based ctrlX OS operating system with app technology. The WAGO Edge Controller 400 can be readily adapted to a specific task using app technology that is known from mobile phones. Apps for high-level languages, databases, IEC 61131 programming, EtherCAT®, visualization and many other functions are available. In addition to extensive diagnostic functions, the data layer is an important component of the WAGO Edge Controller 400. This data layer manages all information available on the controller and all apps can securely access this information.

This data layer is thus the data backbone of the machine because all data is available to the applications transparently and in real-time.

Item Description	Edge Controller 400 ctrlX OS
Item No.	752-8400
Technical Data	
Operating system	ctrlX OS
Processor	Zynq UltraScale+, 64 bits, 4 × ARM A53
Transmission rate	ETHERNET: 10 Mbit/s, 100 Mbit/s, 1 Gbit/s
Main memory (RAM)	2 GB, DRAM
Internal memory (flash)	4 GB, eMMC
Non-volatile memory (hardware)	128 KB, NVRAM
Interfaces (USB)	1 x USB host, type C (USB2.0), maximum cable length: 3 m
Type of memory card	microSD up to 32 GB (all guaranteed properties only valid with WAGO's memory card)
Battery type	CR1025
Supply voltage	SELV/PELV 24 VDC (18 … 31.2 V (including all tolerances, including ripple); Internal fuse protection with eFuse, 1.5 A; Overvoltage protection: can trip the fuse in the event of overvoltage; Transient protection: Suppressor diodes; Pulse load up to 1500 W Voltage drops on power supply interfaces: PS1 < 1 ms; Evaluation criterion A
Current consumption (typ.)	320 mA
Power consumption (typ.) (24 V)	7.68 W
Isolation	707 VDC (24 V supply to functional ground); 1200 VDC (24 V supply to XF10, XF50, XF51)
Connection technology: communication/fieldbus	ETHERNET: 3 x RJ-45
Dimensions W x H x D	42 x 108.2 x 97.4 mm
Weight	370 g
Ambient temperature (operation)	-25 … +55 °C, bis 2000 m; -25 … +50 °C (2000 … 3000 m); -25 … +45 °C (3000 … 4000 m); -25 … +40 °C (4000 … 5000 m)
Ambient temperature (storage)	-40 … +70 °C
Operating altitude	Up to 5000 m above sea level
Relative humidity (without condensation)	5 … 85 %
Protection type	IP20 (not evaluated by UL)
Protection class	III per DIN EN 61010-2-201
Overvoltage category	2 per IEC 60664-1
Pollution degree	2 per EN 61010-1; no condensation permissible
Vibration resistance	Per DIN EN 60068-2-6; vibrations, sinusoidal in all 3 axes; 5 Hz to 8.4 Hz with 3.5 mm amplitude; 8.4 Hz to 150 Hz with 1g peak acceleration; broadband noise per DIN EN 60068-2-64; 5-20-150 Hz with 0.572g, 5 h per axis
Shock resistance	Per DIN EN 60068-2-27; Shock stress: shock resistance in all 3 axes 11 ms, semi-sinusoidal 15g
ESD (contact/air discharge)	Per DIN EN 61131-2; Criterion B; Test voltage: 4 kV for contact discharge; 8 kV for air discharge
EMC immunity to interference	Per DIN EN 61000-6-2
EMC emission of interference	Per DIN EN 61000-6-4
For data sheet and additional information, see:	wago.com/752-8400

Edge Devices ► Edge Computer



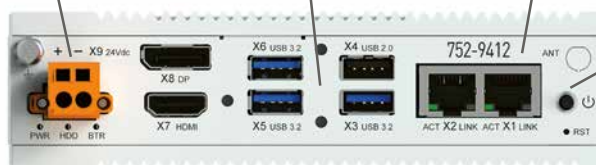
752-9412

Supply voltage
24 VDC (10 ... 36 V)

4 x USB host

2 x ETHERNET RJ-45

Power On

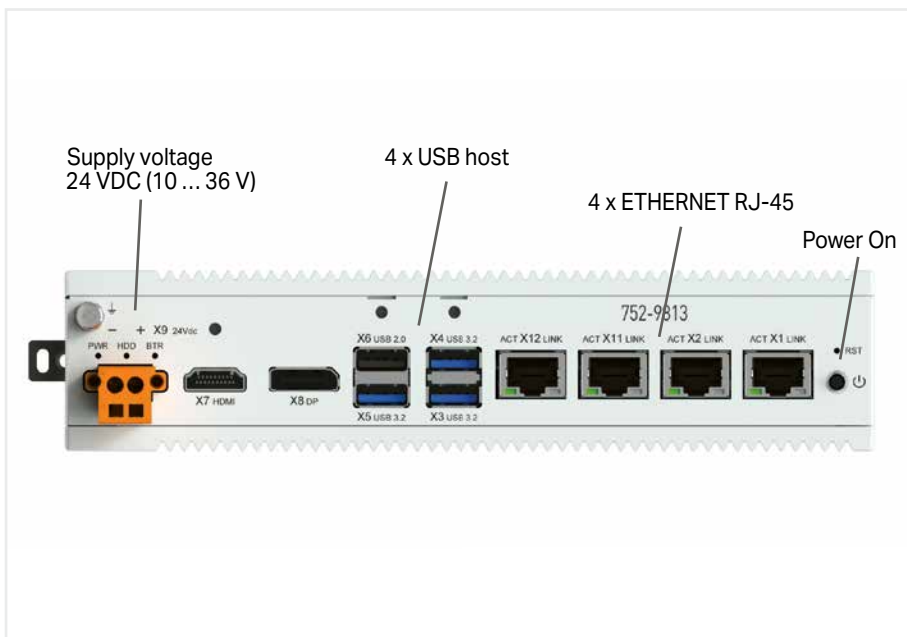


Item Description	Edge Computer; 2 x ETHERNET, 4 x USB, HDMI, DP; 16GB RAM; 128GB FLASH
Item no.	752-9412
Visualization	Web server
ETHERNET protocols	DHCP; DNS; HTTP; HTTPS; SSH; SCP; SFTP
Operating system	Debian Linux
Processor	Intel® Atom X6413E processor 4 x 1.5 GHz (max. 3.00 GHz)
Main memory (RAM)	16 GB; DDR4 SODIMM
Internal memory (flash)	128 GB; m.2 SSD
Speichererweiterung	1 x mPCIe slot, 1 x M.2 B and SATA 2.5" SSD
Security-Modul	TPM 2.0 chip
Connection technology: communication/fieldbus	2 x RJ-45 1000BASE-T; 3 x USB 3.2 (type A); 1 x USB 2.0 (type A)
Interfaces	1 x DisplayPort 1.4, 4096 x 2160 @60 Hz; 1 x HDMI 1.4, 3840 x 2160 @30 Hz
Indicators	3 x LED
Supply voltage	24 VDC (10 ... 36 V)
Input current (typ.) at nominal load (24 V)	800 mA
Input current (max.) (24 V)	2250 mA
Operating power	19 W (typ.); 54 W (max.)
Dimensions W x H x D	(40 x 150 x 105) mm
Weight	1309 g
Housing material	Aluminum, powder-coated
Mounting type	DIN-35 rail
Ambient temperature (operation)	-20 ... +60 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP40
Relative humidity (without condensation)	95 %
Approvals (pending)	CE; UKCA; UL; FCC
For data sheet and additional information, see:	wago.com/752-9412

Edge Devices ► Edge Computer



752-9813

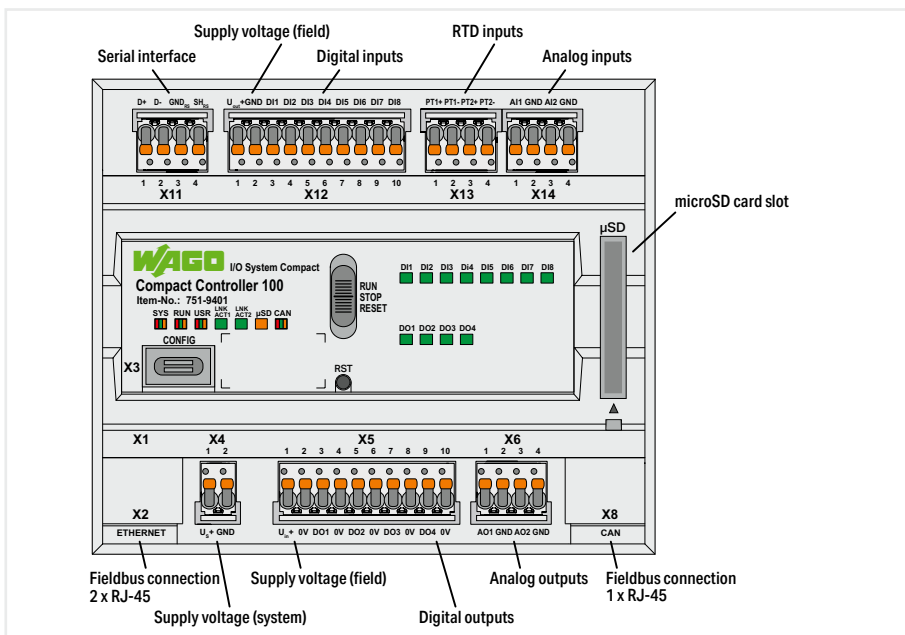


Item Description	Edge Computer; 4 x ETHERNET, 4 x USB, HDMI, DP; 32GB RAM; 256GB FLASH
Item no.	752-9813
Visualization	Web server
ETHERNET protocols	DHCP; DNS; HTTP; HTTPS; SSH; SCP; SFTP
Operating system	Debian Linux
Processor	Intel i7-1185G7E processor 4 x 1.8 GHz (max. 4.40 GHz)
Main memory (RAM)	32 GB; DDR4 SODIMM
Internal memory (flash)	256 GB; m.2 SSD
Speichererweiterung	2 x mPCIe slot, 1 x M.2 B and SATA 2.5" SSD
Security-Modul	TPM 2.0 chip
Connection technology: communication/fieldbus	4 x RJ-45 1000BASE-T; 3 x USB 3.2 (type A); 1 x USB 2.0 (type A)
Interfaces	1 x DisplayPort 1.4a, 4096 x 2304 @60 Hz; 1 x HDMI 1.4, 3840 x 2160 @30 Hz
Indicators	3 x LED
Supply voltage	24 VDC (10 ... 36 V)
Input current (typ.) at nominal load (24 V)	1258 mA
Input current (max.) (24 V)	3542 mA
Operating power	30.2 W (typ.); 85 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
Ambient temperature (operation)	-20 ... +60 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP40
Relative humidity (without condensation)	95 %
Approvals (pending)	CE; UKCA; UL; FCC
For data sheet and additional information, see:	wago.com/752-9813

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



751-9401



Item Description

Item no.

Technical data

Communication

ETHERNET protocols

Visualization

Programming environment

CPU

Operating system

Main memory (RAM)

Internal memory (flash)

Non-volatile hardware memory

Data memory

Program memory

Non-volatile software memory

Supply voltage (system)

Supply voltage (field)

Current consumption (system) max.

Current consumption (field) max. (digital outputs, U_{in+})

Signal type

Number of digital inputs

Input characteristic

Number of digital outputs

Output current (per channel)

Output current

Signal type (voltage)

Number of analog inputs

Resolution of analog inputs

Number of analog outputs

Resolution of analog outputs

Load impedance (voltage output)

Number of measurement inputs

Temperature range

Ambient temperature (operation)

Approvals

For data sheet and additional information, see:

Accessories

Memory Card SD Micro; 2 GByte

Memory Card SD Micro; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C

Compact Controller 100; 8DI 4DO 2AI 2AO 2NI1K/PT1K 1RS485; 2 x ETHERNET, CAN, CANopen; SD
751-9401

Modbus (TCP, UDP); EtherCAT® Master; EtherNet/IP™ Adapter (slave); EtherNet/IP™ Scanner; CANopen; Modbus RTU; OPC UA Server/Client; OPC UA Pub/Sub (can be installed later); MQTT; RS-485 interface; Bacnet/IP, **requires an additional license**; Telecontrol protocols, **requires an additional license**

DHCP; DNS; NTP; FTP; FTPS; SNMP; HTTP; HTTPS; SSH

Web-Visu

CODESYS V3.5; Node RED

2 x Cortex A7; 650 MHz

Real-time Linux (with RT-Preempt patch)

512 MB

4096 MB

128 KB

128 MB

32 MB

128 KB

24 VDC (-15 ... +20 %); via pluggable connector (*picoMAX*® 3.5; Push-in CAGE CLAMP® connection)

24 VDC (-15 ... +20 %); via pluggable connector (*picoMAX*® 3.5; Push-in CAGE CLAMP® connection)

500 mA

2000 mA

Voltage; Resistance measurement

8

Type 3 (per EN 61131-2)

4

500 mA (DC)

short-circuit-protected

0 ... 10 VDC

2

16 bits

2

12 bits

≥ 5 kΩ

2

-60 ... 350 °C, Pt1000, Ni1000

-25 ... +60 °C

CE; UKCA; OrdLoc

wago.com/751-9401

Item no.

758-879/000-3102

758-879/000-3108

WAGO Starter Kit with Compact Controller 100 (751-9301)



To get to know and test the WAGO Compact Controller 100, WAGO now offers the WAGO Compact Controller 100 Starter Kit.

This starter kit offers a quick, easy, cost-effective entry point into the world of WAGO controllers using the Compact Controller 100, CODESYS and the industrial IoT world (open automation).

Another advantage: The starter kit is turnkey – users can begin wiring immediately. Therefore, the starter kit is ideal for starting with WAGO controllers and smaller automation solutions – regardless of the user's level of expertise.

Your Benefits:

- A quick and easy way to begin using the WAGO Compact Controller 100, CODESYS and the Industrial IoT
- Ready to work: just connect and get started
- The first in a series of starter kits for WAGO Compact Controllers

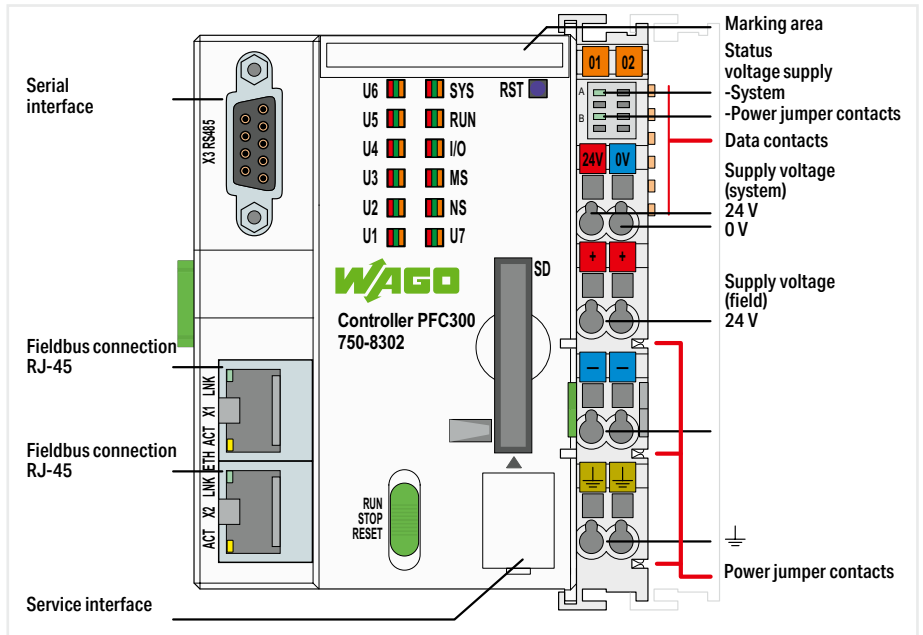
Item Description	Item No.
WAGO Starter Kit Compact Controller 100	2849-1199/751-9301
The starter kit includes:	
Compact Controller 100; 8DI 4DO 2AI 2AO 2NI1K/PT1K 1RS485; 2 x ETHERNET; SD	751-9301
Power supply; Compact; 1-phase; Output voltage: 24 VDC; Output current: 1.25 A	787-2850
2 x switch module; with breaker; Switching voltage: 250 VAC; Switching current: 16 A	789-801
2 x screwless end stop; 6 mm wide; for 35 x 15 and 35 x 7.5 DIN-rails; gray	249-116
Operating tool; (2.5 x 0.4) mm blade; with a partially insulated shaft	210-719
Connection cables and cable ties	

ETHERNET protocols	DHCP, DNS, NTP, FTP, FTPS, SNMP, HTTP, HTTPS, SSH
Configuration options	CODESYS V3.5 Ethernet Settings Web-Based Management WAGUpload WAGO Solution Builder

Controller PFC300; 2 x ETHERNET, RS-485

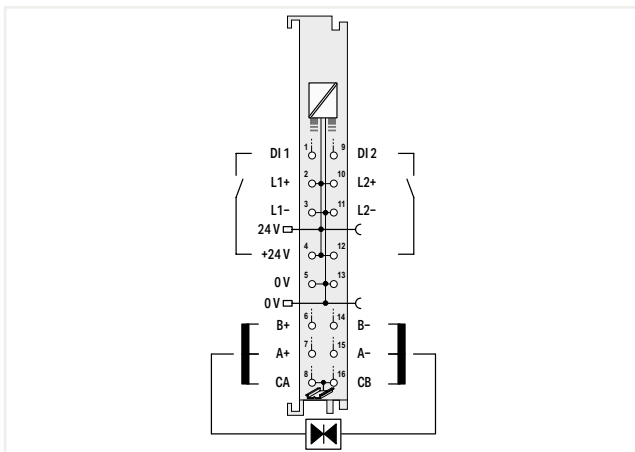


750-8302



Item Description	Controller PFC300; 2 x ETHERNET, RS-485
Item no.	750-8302
Technical data	
Communication	Modbus TCP master/slave; Modbus (UDP), WagoAppPlcModbus Library; Modbus (RTU), WagoAppPlcModbus Library; ETHERNET; EtherNet/IP™ Adapter (slave); EtherNet/IP™ Scanner; EtherCAT® Master; PROFINET Controller (limited); OPC UA Server/Client; OPC UA Pub/Sub (can be installed later); MQTT; RS-485 interface
ETHERNET protocols	DHCP; DNS; NTP; FTP; FTPS; SNMP; HTTP; HTTPS; SSH
Visualization	Web-Visu
Programming environment	CODESYS V3.5
CPU	Dual Core Cortex A53 1.2 GHz
Operating system	Real-time Linux (with RT-Preempt patch)
Main memory (RAM)/internal memory (flash)/non-volatile memory (hardware)	2 GB, LPDDR4 RAM / 32 GB, eMMC Flash / 128 KB
Program memory/data memory/non-volatile memory (software)	32 MB / 512 MB / 128 KB
Number of modules per node (max.)	250
Input and output process image (internal) max.	1000 words/1000 words
Input and output process image (Modbus®) max.	CODESYS V2: 1000 words/1000 words; CODESYS V3: 32000 words/32000 words
Supply voltage (system)	24 VDC (-25 ... +30 %); via pluggable connector (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
Ambient temperature (operation)	0 ... +55 °C
Dimensions W x H x D	(78.6 x 100 x 71.9) mm
For data sheet and additional information, see:	wago.com/750-8302

Proportional Valve Module, 2 -Channel; 24 VDC; 1.6 A



The 750-1632/000-100 Proportional Valve Module controls two single-coil valves with up to 24 V/1.6 A or one valve with up to 24 V/2 A. The module features two current-controlled PWM* outputs with adjustable dithering.

Both unipolar and bipolar valve control are possible. Additionally, operation of a valve with two unipolar coils is also provided. A two-channel module may also be used for simple applications. Characteristic curve adaptations, such as zero offset, dual gain compensation or range limitations, can be adjusted via parameters.

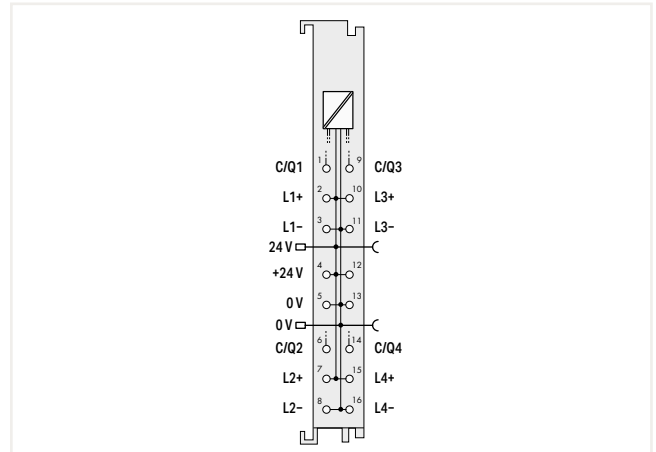
Scaling and configurable up/down ramps permit set point adjustment to the application. For example, monitoring threshold value switches is performed via two additional digital inputs.

Start-up and valve parameters adjustment are performed via WAGO-I/O-CHECK software or the controller.

*PWM = Pulse width modulation

Item Description	Proportional Valve Module, 2 -Channel; 24 VDC; 1.6 A
Item No.	750-1632/000-100
Technical data	
Number of digital inputs	2
Number of outputs	2 bipolar outputs (A+, A- and B+, B-)
Type of output	H-bridge output with current-regulated PWM output (short-circuit-proof and thermal overload-proof for each channel)
Input characteristic	high-side switching
Input characteristic	Type 1
Input current (typ.)	2.7 mA at 24 V
Output current	1-channel operation: 2 A; 2-channel operation: 1.6 A per channel
Load type	Operating range: inductive (1 mH ... 600 mH); Internal load resistance (> 8 Ohm)
PWM frequency (typ.)	25 kHz
Data width	6 bytes: single-channel operating mode; 12 bytes: dual-channel operating mode
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	125 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Current consumption, field supply (module with no external load)	20 mA
Isolation	500 V system/field
Dimensions W x H x D	12 x 100 x 69 mm
Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
For data sheet and additional information, see:	wago.com/750-1632/000-100

4-Port IO-Link Master



Increasingly complex products, manufacturing flexibility and high demands on quality assurance require intelligent, configurable and programmable sensors. To fulfill these demands, IO-Link streamlines the varying interfaces required to connect to a control system and tooling.

A 3-wire connection can communicate process data (as single bits, bytes and data blocks for input and output data). It also communicates acyclic data (for identification, configuration, parameterization and diagnostics) with up to 230.4 kBaud to both sensors and actuators.

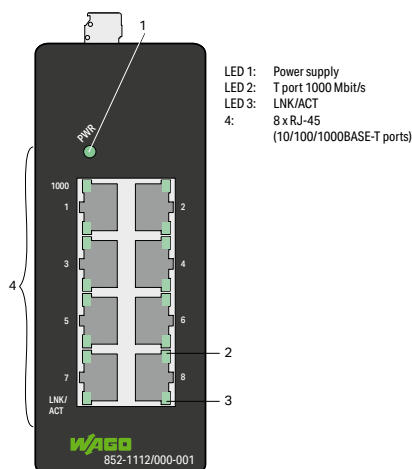
The functions and performance data are defined in device description files for the IO-Link devices; these are easy to customize via WAGO-I/O-CHECK or the WAGO I/O-Link Configurator. If a device must be replaced, the configuration and parameterization can be automatically restored without maintenance personnel. Project design, installation and operation are simplified!

The module meets the IO-Link test specification V1.1.3 from January 2021.

Four different IO-Link devices or standard digital sensors/actuators can simultaneously connect to the WAGO 750-1657 IO-Link Master. At just 12 mm (0.47 inch) wide, the module has three connections for each of the four channels.

Item Description	4-Port IO-Link Master
Item No.	750-1657
Technical data	
Topology	4 IO-Link ports (point-to-point)
Sensor connection	4 x (3-wire)
Actuator connection	4 x (3-wire)
Supply current per port	max. 0.3 A (max. 1 port up to 1 A)
Transmission modes	4.8 kBaud (COM 1), 38.4 kBaud (COM 2), 230.4 kBaud (COM 3)
Connection requirement (permissible cable length)	20 m
Data width	4–48 bytes, configurable
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	52 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Current consumption, field supply (module with no external load)	11 mA
Isolation	500 V system/field
Dimensions W x H x D	12 x 100 x 69 mm
Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6, EN 61131-2
Shock resistance	15g per IEC 60068-2-27, EN 61131-2
EMC immunity to interference	per EN 61000-6-2, EN 61131-2
EMC emission of interference	per EN 61000-6-4, EN 61131-2
For data sheet and additional information, see:	wago.com/750-1657

Industrial Switches ► ECO Unmanaged



Item Description

Industrial Eco Switch; 8-Port Gb

Item no.

852-1112/000-001

Technical data

Switching mode

Store-and-forward; non-blocking

Number of copper ports

8 x 1000BASE-T or 100BASE-TX (RJ-45)

Communication standards

IEEE 802.3 10BASE-T;
 IEEE 802.3u 100BASE-TX;
 IEEE 802.3ab 1000BASE-T;
 IEEE 802.3x Flow Control;
 IEEE 802.3 Nway autonegotiation;
 IEEE 802.1p Prioritization

MAC table (size)

4096 addresses

Topology

Star

Jumbo frame size

9216 bytes

Supply voltage

12 ... 48 VDC

Power consumption (max.)

5 W

ESD (contact/air discharge)

8 KV / 15 KV

Connection technology: communication/fieldbus

Copper cable: 8 x RJ-45

Ambient temperature (operation)

-40 ... +70 °C

Dimensions W x H x D

(46 x 116 x 110) mm

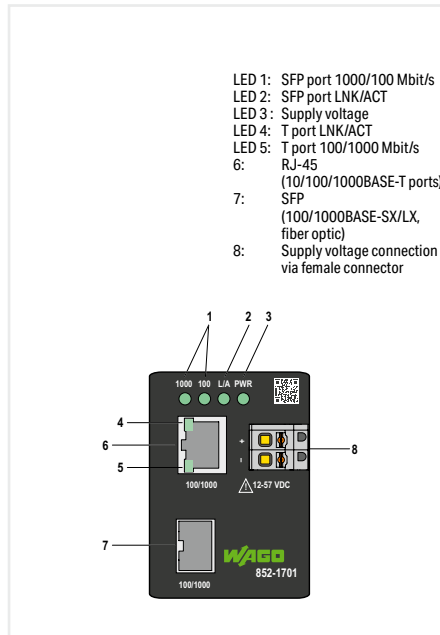
For data sheet and additional information, see:

wago.com/852-1112/000-001

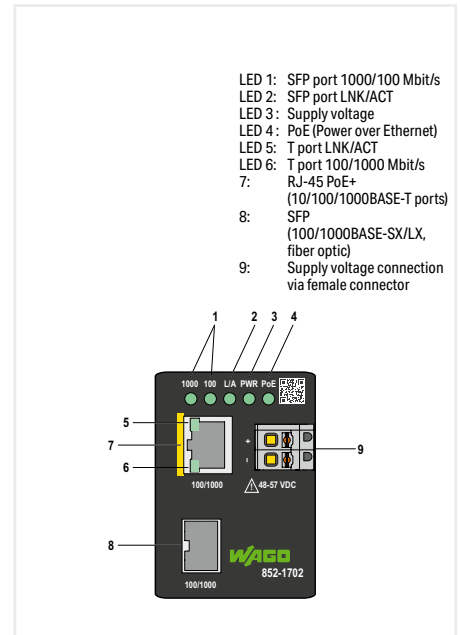
Industrial Switches ▶ Industrial Media Converter



852-1701



- LED 1: SFP port 1000/100 Mbit/s
- LED 2: SFP port LNK/ACT
- LED 3: Supply voltage
- LED 4: T port LNK/ACT
- LED 5: T port 100/1000 Mbit/s
- 6: RJ-45 (10/100/1000BASE-T ports)
- 7: SFP (100/1000BASE-SX/LX, fiber optic)
- 8: Supply voltage connection via female connector



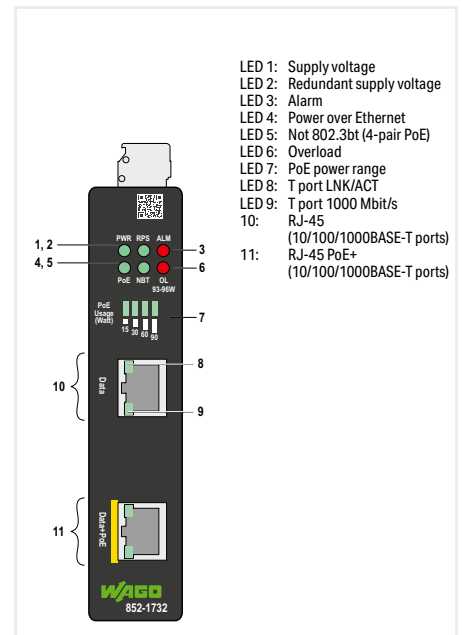
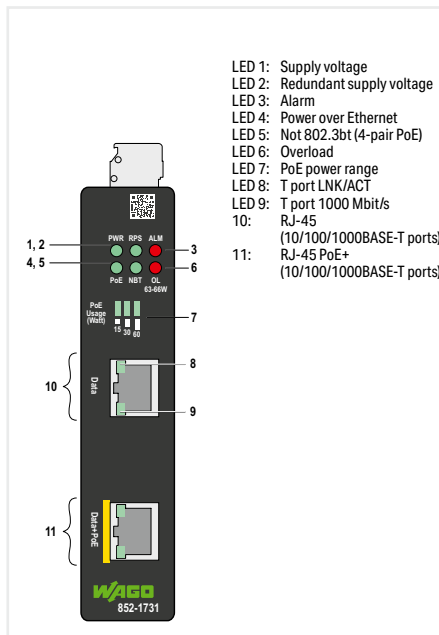
- LED 1: SFP port 1000/100 Mbit/s
- LED 2: SFP port LNK/ACT
- LED 3: Supply voltage
- LED 4: PoE (Power over Ethernet)
- LED 5: T port LNK/ACT
- LED 6: T port 100/1000 Mbit/s
- 7: RJ-45 PoE+ (10/100/1000BASE-T ports)
- 8: SFP (100/1000BASE-SX/LX, fiber optic)
- 9: Supply voltage connection via female connector

Item Description	Industrial Media Converter; Copper to SFP port; 100/1000BASE	Industrial Media Converter; Copper to SFP port; PoE; 100/1000 BASE
Item no.	852-1701	852-1702
Technical data		
Number of copper ports	1 x 1000BASE-T or 100BASE-TX (RJ-45)	1 x 1000BASE-T or 100BASE-TX (RJ-45); 1 x PoE+ (Power over Ethernet)
Communication standards	IEEE 802.3u 100BASE-TX/FX; IEEE 802.3ab 1000BASE-T; IEEE 802.3z 1000BASE-SX/LX	IEEE 802.3u 100BASE-TX/FX; IEEE 802.3ab 1000BASE-T; IEEE 802.3z 1000BASE-SX/LX; IEEE 802.3af Power over Ethernet (PoE); IEEE 802.3at High Power over Ethernet (PoE+)
Topology	Star	Star
Jumbo frame size	16000 bytes	16000 bytes
Supply voltage	12 ... 57 VDC	48 ... 57 VDC
Power consumption (max.)	6 W	36 W
Connection technology: communication/fieldbus	Copper cable: 1 x RJ-45; Fiber optic: 1 x SFP slots (e.g., with SFP module and LC fiber-optic connector)	Copper cable: 1 x RJ-45; Fiber optic: 1 x SFP slots (e.g., with SFP module and LC fiber-optic connector)
Ambient temperature (operation)	-40 ... +75 °C	-40 ... +75 °C
Dimensions W x H x D	(60.5 x 42.5 x 50) mm	(60.5 x 42.5 x 50) mm
For data sheet and additional information, see:	wago.com/852-1701	wago.com/852-1702

Industrial Switches ▶ Industrial PoE Injector



852-1731







Item Description	Industrial PoE Injector; PoE++; 60 watt; 10/100/1000BASE	Industrial PoE Injector; PoE++; 90 watt; 10/100/1000BASE
Item no.	852-1731	852-1732
Technical data		
Number of copper ports	2 x 1000BASE-T or 100BASE-TX (RJ-45); 1 x PoE+ (Power over Ethernet)	2 x 1000BASE-T or 100BASE-TX (RJ-45); 1 x PoE+ (Power over Ethernet)
Communication standards	IEEE 802.3 10BASE-T; IEEE 802.3u 100BASE-TX; IEEE 802.3ab 1000BASE-T; IEEE 802.3af Power over Ethernet (PoE); IEEE 802.3at High Power over Ethernet (PoE+); IEEE 802.3bt 4-pair PoE	IEEE 802.3 10BASE-T; IEEE 802.3u 100BASE-TX; IEEE 802.3ab 1000BASE-T; IEEE 802.3af Power over Ethernet (PoE); IEEE 802.3at High Power over Ethernet (PoE+); IEEE 802.3bt 4-pair PoE
Supply voltage	24 ... 57 VDC	24 ... 57 VDC
Power consumption (max.)	90 W	120 W
Connection technology: communication/fieldbus	Copper cable: 2 x RJ-45	Copper cable: 2 x RJ-45
Ambient temperature (operation)	-40 ... +75 °C	-40 ... +75 °C
Dimensions W x H x D	(25 x 116 x 100) mm	(25 x 116 x 100) mm
For data sheet and additional information, see:	wago.com/852-1731	wago.com/852-1732



Interface Electronics and Power Supplies

Interface Electronics and Power Supplies

	Interface Electronics	Page
	Communication module; MODBUS TCP 879 Series	34
	Electronic circuit breakers 787 Series	35
	Power Supplies	Page
	1-phase power supplies Eco 2	37
	3-phase power supplies Eco 2 Pro 2	40 42

Products highlighted in RED are new items for Spring 2024

Communication module; MODBUS TCP 879 Series



Item No.	PU
879-9000	1

The WAGO Communication Module extends the WAGO Energy Meters and other Modbus RTU slaves with ETHERNET access. The Modbus TCP Module's design is based on the 879 Series Energy Meters and has the same profile as these. There are various options for connecting the communication module to the energy meters:

1. Connection to the energy meter via UART interface (one communication module per energy meter)
2. Connection via RS-485 interface (up to 32 generic Modbus® slaves)

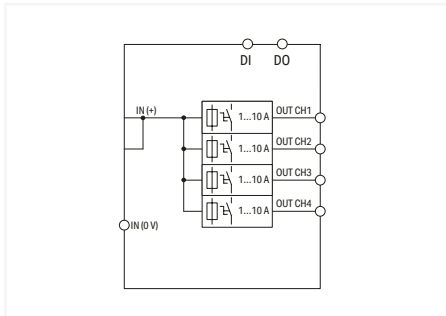
Features:

- WAGO's communication module snaps onto a WAGO Energy Meter (MID)
- Modbus TCP
- Direct connection to the energy meters via side-entry UART interface (RS-232)
- 32 generic Modbus RTU slaves can be connected via RS-485 interface
- Configuration via configuration software or via Modbus function codes
- Maximum permissible number of Modbus TCP connections: 4

Input	
Nominal input voltage $U_{i, nom}$	5 VDC (SELV)
Signaling and communication	
Communication	Modbus (TCP); RS-232/-485 interface
Configuration options	Configuration Software
Baud rate	EtherNet: Twisted Pair S-UTP; 100 Ω; Cat 5: 100 MBd (ETHERNET: 10/100 Mbit/s)
Connection data	
Connection type 1	Modbus TCP/UDP
Connection technology	RJ-45
Connection technology 2	RS-485
WAGO connector 2	WAGO 2604 Series
Connection type 3	UART
Connection technology 3	Male connector; 4-pole
Physical data	
Width	17 mm / 0.67 inch
Height	140 mm / 5.51 inch
Depth	60 mm / 2.36 inch
Note (dimensions)	Height without cover: 92 mm
Mechanical data	
Mounting type	DIN-35 rail
Standards and specifications	
Conformity marking	CE

Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 ... 10 A; communication capability

787 Series



Item No.	PU
787-3664	1

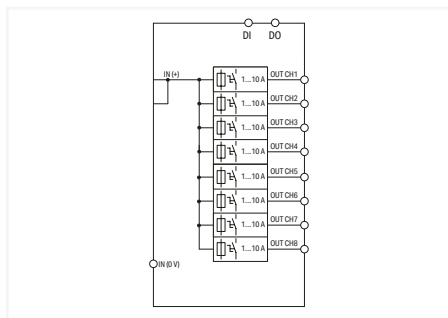
Features:

- Space-saving ECB with four channels
- Nominal current: 1 ... 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50,000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets tripped channels or switches on/off any number of channels

Input	
Nominal input voltage $U_{i, \text{nom}}$	24 VDC
Input voltage range	18 ... 30 VDC
Output	
Total number of channels (module)	4
Nominal output voltage $U_{o, \text{nom}}$	4 x 24 VDC
Output voltage range	18 ... 30 VDC (U_e - voltage drop)
Voltage drop	≤ 250 mV (Input +)
Nominal output current $I_{o, \text{nom}}$	4 x 1 / 2 / 4 / 6 / 8 / 10 A ((adjustable for each channel via selector switch)
Default setting	DC 1 A; switched off
Switch-on capacity	> 50,000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 10 s)
Active current limitation	No
Current limitation	No
Signaling and communication	
Signaling	4 x LED (green/red/orange); 1 x remote control input (S1); 1 x active signal output (S2)
Operation status indicator	Green LED (channel OK); Red LED (tripped channel)
Remote input	Reactivation of all tripped channels via 15 ... 30 VDC pulse for min. 500 ms
Efficiency/Power losses	
Power loss P_i	≤ 0.84 W; ≤ 10 W (4 x 10 A)
Efficiency (typ.)	98 %
Circuit protection	
Internal fuse	T 12 A per channel
Safety and protection	
Isolation voltage (connectors – housing)	0.5 kVDC
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	No
Resistance to reverse feed	≤ 35 VDC
Pollution degree	2
Transient suppression (primary)	Suppressor diode (33 V)
Parallel operation of single channels	permissible
Series operation	No
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 ... 10 mm ² / 0.5 ... 10 mm ² / 20 ... 8 AWG
Input (-); output; signaling (solid/fine-stranded/AWG)	0.08 ... 2.5 mm ² / 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	32 x 95 x 117.5; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	≥ 50 °C (see instruction manual)
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; UL 2367; DNV

Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 ... 10 A; communication capability

787 Series



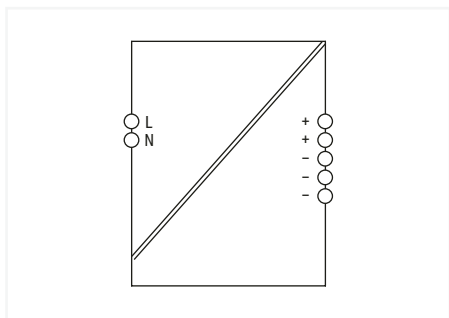
Item No.	PU
787-3668	1

Features:

- Space-saving ECB with eight channels
- Nominal current: 1 ... 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50,000 μF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Remote input resets tripped channels or switches on/off any number of channels

Input	
Nominal input voltage $U_{i, \text{nom}}$	24 VDC
Input voltage range	18 ... 30 VDC
Output	
Total number of channels (module)	8
Nominal output voltage $U_{o, \text{nom}}$	8 x 24 VDC
Output voltage range	18 ... 30 VDC (U_e – voltage drop)
Voltage drop	≤ 250 mV (Input +)
Nominal output current $I_{o, \text{nom}}$	8 x 1 / 2 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Default setting	DC 1 A; switched on
Switch-on capacity	> 50,000 μF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 10 s)
Active current limitation	No
Current limitation	No
Signaling and communication	
Signaling	8 x LED (green/red/orange); 1 x remote control input (S1); 1 x active signal output (S2)
Operation status indicator	Green LED (channel OK); Red LED (tripped channel)
Remote input	Reactivation of all tripped channels via 15 ... 30 VDC pulse for min. 500 ms
Efficiency/Power losses	
Power loss P_i	≤ 1.6 W; ≤ 20 W (8 x 10 A)
Efficiency (typ.)	98 %
Circuit protection	
Internal fuse	T 12 A per channel
Safety and protection	
Isolation voltage (connectors – housing)	0.5 kVDC
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	No
Resistance to reverse feed	≤ 35 VDC
Pollution degree	2
Transient suppression (primary)	Suppressor diode (33 V)
Parallel operation of single channels	Permissible
Series operation	No
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input (+) (solid/fine-stranded/AWG)	0.5 ... 10 mm ² / 0.5 ... 10 mm ² / 20 ... 8 AWG
Input (-); output; signaling (solid/fine-stranded/AWG)	0.08 ... 2.5 mm ² / 0.08 ... 2.5 mm ² / 28 ... 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	32 x 115 x 117.5; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	170 g
Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	≥ 50 °C (see instruction manual)
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; UL 2367; DNV

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK contact 2687 Series



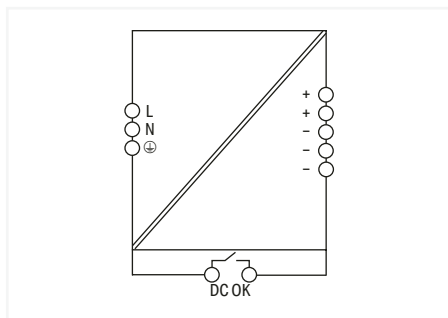
Item No.	PU
2687-2143	1

Features:

- Optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	1
Nominal input voltage $U_{i, \text{nom}}$	1 x 100 ... 240 VAC
Input voltage range	1 x 90 ... 264 VAC
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	≤ 0.5 A (230 VAC; nominal load); ≤ 1.3 A (100 VAC; nominal load)
Inrush current	≤ 20 A (after 1 ms)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 130 ms (230 VAC); ≥ 23 ms (110 VAC)
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	22 ... 29 VDC (adjustable)
Default setting	24 VDC
Nominal output current $I_{o, \text{nom}}$	2.5 A (24 VDC)
Nominal output power	60 W
Deviation	≤ 1 %
Residual ripple	≤ 20 mV (peak-to-peak, at 230 VAC)
Overload behavior	Constant power up to 130 %; shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Efficiency/Power losses	
Power loss P_i	≤ 0.1 W (No load); ≤ 6 W (nominal load)
Efficiency (typ.)	90.5 %
Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection	
Isolation voltage (pri.-sec., AC)	3510 V
Protection class/Protection type	II / IP20; per EN 60529
Resistance to reverse feed	≤ 35 VDC
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Short-circuit-protected / Open-circuit-proof	Yes/yes
Parallel operation / Series operation	Yes/yes
Connection data	
Connection type 1	Input/output
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	35 x 100 x 90; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Weight	250 g
Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See type label/manual
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE; UKCA
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; SEMI F47

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 20 A output current 2687 Series



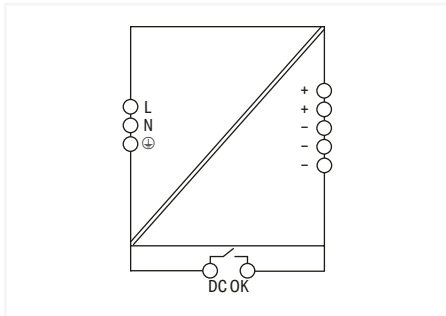
Item No.	PU
2687-2147	1

Features:

- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	1
Nominal input voltage $U_{i, \text{nom}}$	1 x 100 ... 240 VAC
Input voltage range	1 x 90 ... 264 VAC
Nominal mains frequency range	47 ... 63 Hz
Inrush current	≤ 20 A (after 1 ms)
Power factor	≥ 0.9 (230 VAC)
Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV/PELV)
Output voltage range	24 ... 26,4 VDC
Nominal output current $I_{o, \text{nom}}$	20 A
Nominal output power	480 W
Deviation	≤ 1 %
Residual ripple	≤ 75 mV (peak-to-peak)
Overload behavior	Constant power up to 125 %; shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	Optical status indication (overload); Optical status indication (DC OK); Digital signal output (DO)
Efficiency/Power losses	
Power loss P_i	≤ 3 W (230 VAC; no load)
Efficiency (typ.)	92 %
Safety and protection	
Isolation voltage (pri.-sec., AC/ pri.-PE, AC / sec.-PE / sec.-signal)	3510 V / 2200 V / 0.5 kVDC / 0.5 kVDC
Protection class	I
Pollution degree	2
Transient suppression (primary)	Yes
Open-circuit-proof	Yes
Parallel operation/Series operation	Yes/yes
MTBF	$> 500,000$ h (at 25 °C per IEC 61709)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.2 ... 4 mm ² / 0.2 ... 4 mm ² / 24 ... 12 AWG
Output (solid/fine-stranded/AWG)	0.2 ... 10 mm ² / 0.2 ... 10 mm ² / 24 ... 8 AWG
Physical data/Mechanical data	
Width x Height x Depth (mm)	75 x 130 x 130; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	$\leq -3\%/K$
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	3000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 40 A output current 2687 Series



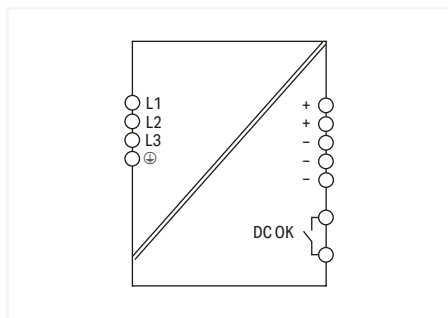
Item No.	PU
2687-2148	1

Features:

- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	1
Nominal input voltage $U_{i,nom}$	1 x 100 ... 240 VAC
Input voltage range	1 x 90 ... 264 VAC
Nominal mains frequency range	47 ... 63 Hz
Input current I_i	≤ 4.4 A (230 VAC; nominal load); ≤ 10.5 A (100 VAC; nominal load)
Inrush current	≤ 25 A (after 1 ms)
Power factor	≥ 0.9 (230 VAC)
Output	
Nominal output voltage $U_{o,nom}$	24 VDC (SELV/PELV)
Output voltage range	24 ... 26,4 VDC
Nominal output current $I_{o,nom}$	40 A
Nominal output power	960 W
Deviation	≤ 1 %
Residual ripple	≤ 75 mV (peak-to-peak)
Overload behavior	Constant power up to 120 % for 3 s; then 100 % constant current until boost is ready; shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	Optical status indication (DC OK, green LED); Optical status indication (overload, red LED); Signal output (DC OK)
Efficiency/Power losses	
Power loss P_i	≤ 3 W; ≤ 53 W (nominal load)
Efficiency (typ.)	94.8 %
Circuit protection	
Internal fuse	T 20 A / 250 VAC
Safety and protection	
Isolation voltage (pri.-sec., AC/ pri.-PE, AC / sec.-PE / sec.-signal)	3510 V / 2200 V / 0.5 kVDC / 0.5 kVDC
Protection class	I
Pollution degree	2
Transient suppression (primary)	Yes
Open-circuit-proof	Yes
Parallel operation/Series operation	Yes/yes
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.2 ... 4 mm ² / 0.2 ... 4 mm ² / 24 ... 12 AWG
Output (solid/fine-stranded/AWG)	0.75 ... 16 mm ² / 0.75 ... 25 mm ² / 18 ... 4 AWG
Signaling (solid/fine-stranded/AWG)	0.14 ... 1.5 mm ² / 28 ... 16 AWG
Physical data/Mechanical data	
Width x Height x Depth (mm)	125 x 130 x 130; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	≤ -3%/K
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	3000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Eco 2; 3-phase; 24 VDC output voltage; 20 A output current 2687 Series



Item No.	PU
2687-2344	1

Features:

- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	3
Nominal input voltage $U_{i, \text{nom}}$	3 x 400 ... 500 VAC
Input voltage range	3 x 340 ... 550 VAC
Nominal mains frequency range	47 ... 63 Hz
Inrush current	≤ 20 A (after 1 ms)
Power factor	≥ 0.5 (400 V AC; nominal load)

Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV/PELV)
Output voltage range	24 ... 26,4 VDC
Nominal output current $I_{o, \text{nom}}$	5 A
Nominal output power	120 W
Deviation	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power up to 125 %; shutdown and automatic restart in the event of a short circuit

Signaling and communication	
Signaling	Optical status indication (overload); Optical status indication (DC OK); Digital signal output (DO)

Efficiency/Power losses	
Power loss P_i	≤ 3 W (400 VAC; no load)
Efficiency (typ.)	88 %

Safety and protection	
Protection class	I
Transient suppression (primary)	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
MTBF	> 600,000 h (at 25 °C)

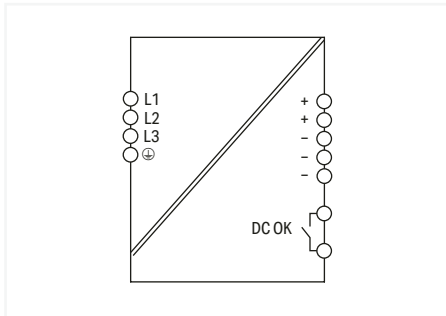
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 ... 0.4 mm ² / 0.2 ... 0.4 mm ² / 24 ... 12 AWG

Physical data/Mechanical data	
Width x Height x Depth (mm)	49,5 x 130 x 130; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	≤ -3%/K at $T_U \geq +50$ °C
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	2000 m

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Eco 2; 3-phase; 24 VDC output voltage; 40 A output current 2687 Series



Item No.	PU
2687-2346	1

Features:

- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	3
Nominal input voltage $U_{i, \text{nom}}$	3 x 400 ... 500 VAC
Input voltage range	3 x 340 ... 550 VAC
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	≤ 0.68 A (400 VAC; nominal load); ≤ 1.5 A (340 VAC; nominal load)
Inrush current	≤ 20 A (after 1 ms)
Power factor	≥ 0.5 (400 V AC; nominal load)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 20 ms (230 VAC)

Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV/PELV)
Output voltage range	23,5 ... 28 VDC
Default setting	DC 24 V
Nominal output current $I_{o, \text{nom}}$	10 A
Nominal output power	240 W
Deviation	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant current up to 110 %; shutdown and automatic restart in the event of a short circuit

Signaling and communication	
Signaling	Optical status indication (DC OK, green LED); Optical status indication (overload, red LED); Signal output (DC OK)

Efficiency/Power losses	
Power loss P_i	≤ 1.1 W; ≤ 20 W (nominal load)
Efficiency (typ.)	92.5 %

Circuit protection	
Internal fuse	No
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

Safety and protection	
Isolation voltage (pri.-sec., AC/pri.-PE, AC)	3510 V / 2200 V
Protection class/Protection type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II ($<gt;$ 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected/Open-circuit-proof	Yes/yes
Parallel operation/Series operation	Yes/no
MTBF	$> 700,000$ h (per IEC 61709)

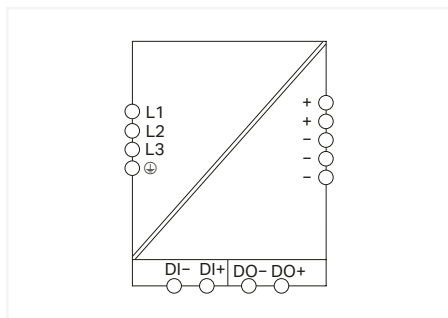
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.2 ... 0.4 mm ² / 0.2 ... 0.4 mm ² / 24 ... 12 AWG

Physical data/Mechanical data	
Width x Height x Depth (mm)	55 x 130 x 138; Depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	$\leq -3\%/K$ at $T_U \geq +50$ °C
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	2000 m

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; SEMI F47

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability; Redundancy 2787 Series



Item No.	PU
2787-3347/000-030	1

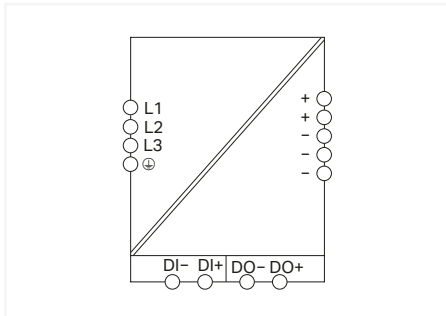
Features:

- 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, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips
- An integrated decoupling MOSFET enables a safe, redundant supply without additional redundancy modules

Input	
Phases	3
Nominal input voltage $U_{i, \text{nom}}$	3 x 400 ... 500 VAC (connection without neutral conductor)
Input voltage range	3 x 340 ... 550 VAC
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	$\leq 3 \times 0.8 \text{ A}$ (400 VAC; 24 VDC / 20 A)
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 $U_{o, \text{nom}}$	24 VDC (SELV)
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)
Current limitation	$1.1 \times I_{o, \text{nom}}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 30 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	USB (750-923 Communication Cable); Ethernet/IP (2789-9023 Communication Module); IO-Link (2789-9080 Communication Module); Modbus RTU (2789-9015 Communication Module); Modbus TCP (2789-9052 Communication Module)
Efficiency/Power losses	
Power loss P_i	$\leq 3.6 \text{ W}$ (standby); $\leq 4.4 \text{ W}$ (No load); $\leq 21 \text{ W}$ (400 VAC; nominal load)
Efficiency (typ.)	95.9 % (400 VAC; 20 A; 25 °C)
Circuit protection	
Internal fuse	3 x T 2.5 A / 500 VAC
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and protection	
Isolation voltage (pri.-sec., AC / pri.-PE, AC / sec.-PE / sec.-signal)	3510 V / 2200 V / 0.5 kVDC / 0.5 kVDC
Protection class/Protection type	I / IP20; per EN 60529
Resistance to reverse feed	$\leq 35 \text{ VDC}$
Overvoltage category	III ($\leq 2000 \text{ m a.s.l.}$); II ($> 2000 \text{ m a.s.l.}$)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit; $\leq 35 \text{ VDC}$ (in the event of a fault)
Short-circuit-protected/Open-circuit-proof	Yes/yes
Parallel operation/Series operation	Yes/yes
MTBF	$> 800,000 \text{ h}$ (per IEC 61709)
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
Physical data/Mechanical data	
Width x Height x Depth (mm)	70 x 130 x 130; Depth from upper-edge of DIN-rail; Height with connector: 169 mm
Mounting type	DIN-35 rail
Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; DNV

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

2787 Series



Item No.	PU
2787-3348/000-030	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, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips
- An integrated decoupling MOSFET enables a safe, redundant supply without additional redundancy modules

Input	
Phases	3
Nominal input voltage $U_{i, \text{nom}}$	3 x 400 ... 500 VAC (connection without neutral conductor)
Input voltage range	3 x 340 ... 550 VAC
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	$\leq 3 \times 1.7 \text{ A}$ (400 VAC; 24 VDC / 40 A)
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 $U_{o, \text{nom}}$	24 VDC (SELV)
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)
Current limitation	$1.1 \times I_{o, \text{nom}}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 60 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Optical status indication (DC OK; load; warning and error states); Digital signal input and output (DI/DO)
Communication	USB (750-923 Communication Cable); Ethernet/IP (2789-9023 Communication Module); IO-Link (2789-9080 Communication Module); Modbus RTU (2789-9015 Communication Module); Modbus TCP (2789-9052 Communication Module)
Efficiency/power losses	
Efficiency (typ.)	96.1 % (400 VAC; 40 A; 25 °C)
Circuit protection	
Internal fuse	3 x T 3.2 A / 500 VAC
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and protection	
Isolation voltage (pri.-sec., AC / pri.-PE, AC / sec.-PE / sec.-signal)	3510 V / 2200 V / 0.5 kVDC / 0.5 kVDC
Protection class/Protection type	I / IP20; per EN 60529
Resistance to reverse feed	$\leq 35 \text{ VDC}$
Overvoltage category	III ($\leq 2000 \text{ m a.s.l.}$); II ($> 2000 \text{ m a.s.l.}$)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit; $\leq 35 \text{ VDC}$ (in the event of a fault)
Short-circuit-protected/Open-circuit-proof	Yes/yes
Parallel operation/Series operation	Yes/yes
MTBF	$> 800,000 \text{ h}$ (per IEC 61709)
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
Physical data/ Mechanical data	
Width x Height x Depth (mm)	120 x 130 x 130; Depth from upper-edge of DIN-rail; Height with connector: 169 mm
Mounting type	DIN-35 rail
Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; DNV



WAGO Marking

WAGO Marking

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	Push-Button Markers 48

Products highlighted in RED are new items for Spring 2024.

Marking Devices

Printer model: WAGO Thermal Transfer Smart Printer ▶ Marking method: Thermal transfer



Available in May 2024

Connection Data

Interfaces USB; RS-232, ETHERNET 10/100 Mbps

System Requirements

Supported operating systems Windows 7; Windows 8; Windows 10; Windows 11; Linux®
Memory 4 GB

Technical Data

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

Mechanical Data

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

Environmental Requirements

Ambient temperature (operation)	+5 ... +40 °C
Ambient temperature (storage)	-20 ... +50 °C

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Marking

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- Insert text via the automatic text suggestions, apply and print.
- Open and print prepared desktop version projects in the app.



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Marking Devices

Printer model: WAGO Thermal Transfer Smart Printer ▶ Marking method: Thermal transfer

Starter Kit

Includes: power supply + cable, 2 x roller (258-5006 + 258-5007), 1 x reel holder, 1 x ink ribbon (258-5005), WAGO Marking Software Smart Script and driver, USB cable, external unwinder, 1 x empty cardboard roller core, 1 x reel of marking strips (2009-110) and WMB Inline markers (2009-115) each



258-5107

Color	Item No.	PU
○	258-5107	1

Base Kit

Includes: power supply + cable, 2 x roller (258-5006 + 258-5007), 1 x reel holder, 1 x ink ribbon (258-5005), WAGO Marking Software Smart Script and driver, USB cable, external unwinder, 1 x empty cardboard core



258-5108

Color	Item No.	PU
○	258-5108	1

Mobile Starter Kit

Includes: USB adapter *Bluetooth*® 5.0 Nano (258-5102), tool bag (large) (206-3010), power supply + cable, 2 x roller (258-5006 + 258-5007), 1 x reel holder, 1 x ink ribbon (258-5005), WAGO Marking Software Smart Script and driver, USB cable, external unwinder, 1 x empty cardboard core



258-5100

Color	Item No.	PU
○	258-5100	1

Accessories: for all products on this page



USB Adapter *Bluetooth*® 5.0 Nano ▶
for WAGO Thermal Transfer Smart
Printer

Color	Item No.	PU
○	258-5102	1



Wireless Micro USB Adapter ▶
for WAGO Thermal Transfer Smart
Printer

Color	Item No.	PU
○	258-5103	1



Power Bank; 12 ... 24 V; 20.1 Ah ▶
for WAGO Thermal Transfer Smart
Printer

Color	Item No.	PU
○	258-5104	1



Tool Bag (large)

Color	Item No.	PU
○	206-3010	1

Push-Button Label 210 Series

Suitable for Schneider push-button frames

Marking surface: 27 x 18 mm ▶ Depth: 0.23 mm ▶ Mounting type: adhesive ▶ 350 markers/reel; 1 line

Marking surface: 27 x 8 mm ▶ Depth: 0.23 mm ▶ Mounting type: adhesive ▶ 350 markers/reel; 1 line



210-864



210-866

Color	Item No.	PU
● silver-colored	210-864	1

Color	Item No.	PU
● silver-colored	210-866	1

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Products highlighted in RED are new items for Spring 2024

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