



NEW PRODUCTS ISSUE 2021

USING MACHINE DATA IN THE MOST EFFICIENT AND SUSTAINABLE WAY

Dear Reader,

Networking and analytics are revolutionizing the industry – this is really nothing new when it comes to digitalization. But how can machines, systems and entire production facilities be upgraded or rebuilt for the digital future? WAGO supports you all the way to meet the **#openandeasy** requirements – as a trusted partner and provider of superior solutions and future-oriented technologies.

These include edge computing, which is becoming increasingly important in the machinery and equipment manufacturing industry. With our two brand new edge devices, the Edge Controller and the Edge Computer, data can be used directly in the field via proper and secure distribution and preparation. These devices process applications directly at the machine, relieving the load on controllers that require low latency and a high level of determinism, from data collection to data distribution and data preparation – a requirement that is becoming more and more important in Industry 4.0 solutions. As far as data usage is concerned, WAGO continues providing the best in **cloud computing**. In the current WAGO Cloud release, the revised dashboard offers you greater transparency and user-friendliness. Additionally, Multi-Cloud Connectivity is now available for our PFC200 Series Controllers and Touch Panels, allowing you to use two cloud systems in parallel.

Of course, anyone talking about sensor-to-cloud applications must also think about the right communication solution. We believe that time-sensitive networking (**TSN**), together with **OPC UA**, will be pivotal for end-to-end, flexible, powerful and secure networking of machines and systems. With our new WAGO I/O System Field, we are taking this very path into the future. Of course, our system also supports fast ETHERNET-based fieldbuses, such as PROFINET and now also EtherCAT® and EtherNet/IP.

And the innovations don't stop at automation technology – we have also developed new products for you in our other divisions, including electrical interconnections and electronic interfaces. Let's have a look at our Pro 2 Power Supply: Thanks to new voltage models, our high-efficiency wonder is now ready for many other applications, including the manufacturing industry. Or are you already familiar with our latest control cabinet components? Learn how you can work more efficiently and save space with innovative products. Enjoy this informative read.

Best regards,

Marco Henkel

Head of **AUTOMATION** Business Unit

04 DATA MINING MADE EASY

New edge computing solutions optimize in-the-field data usage.



06

HIGHER TRANSPARENCY AND USABILITY

The latest WAGO Cloud release
includes multiple new functions.



CONTENTS

TOP PRODUCTS: WAGO Edge Controller and Edge Computer	4
TOP SOLUTIONS: WAGO Cloud and Cloud Connectivity	6
Communication via OPC UA; WAGO Engineering Software	8
WAGO I/O System Field	10
Network Infrastructure	12
Network Infrastructure; WAGO IoT Box	14
WAGO Controller PFC200	16
WAGO I/O System 750	18
Lighting Management, Energy Data Management	22
WAGO Energy Meters	24
WAGO Power Supplies Pro 2	26
WAGO Power Supplies Eco 2, Electronic Circuit Breakers (ECBs)	30
Ground Fault Detection, Signal Conditioner and Interface Module	32
Control Cabinet Components	34
PCB Connection Technology	38
Electrical Interconnections	44
Pluggable Installation Connectors, Tools	46

Engineering Software
e!COCKPIT



Edge Controller

Data Mining Made Easy

New edge computing solutions optimize in-the-field data usage.

As part of Industry 4.0, edge computing combines the advantages of decentralized cloud architectures with those of a local network architecture. This allows edge devices to take over data mining from controllers that require low latency and a high level of determinism. Collected data can be evaluated directly, displayed graphically and made available to the cloud. WAGO debuts two new edge devices that are ideal for this: the Edge Controller and the Edge Computer.

The new Edge Controller (752-8303/8000-0002) utilizes an ARM Cortex-A9 quad-core processor and offers an extensive selection of interfaces, including two ETHERNET ports, one CANopen port and two USB ports. It also has a serial interface and four digital inputs/outputs for connecting local devices or sensors. Project design for the Edge Controller can occur in the familiar **e!COCKPIT** environment, so it fits seamlessly within WAGO's automation solution ecosystem.



Edge Computer

The new Edge Computers (752-9400 and 752-9401) feature a 1.91 GHz quad-core Atom processor and are equipped with standard Debian Linux®. An SSD disk can be installed to expand the existing 64 GByte flash memory for very large data volumes. Despite their extended temperature range from -20°C to +60°C, the Edge Computers do without a fan and are very compact, simplifying integration. Standard software, such as Node-Red, can be used on all edge devices. These devices communicate via all common protocols, both on the factory floor and with the cloud.



Your Benefits:

- Edge Controller with an extensive selection of interfaces
- Edge Computer with high computing power and scalable storage
- The Edge Controller can be configured with *e!COCKPIT*



Item Number:

752-8303/8000-0002

752-9400

752-9401



Availability:

In stock



Higher Transparency and Usability

The latest WAGO Cloud release includes multiple new functions.

WAGO Cloud is a complete IoT system that, together with WAGO's PFC Controllers and Touch Panels, easily connects to machines and systems. With this most recent update, WAGO substantially revised the dashboard to dramatically improve usability. Chief among the improvements are interactive dashboards that now offer a zoom-in function and support both visualization and display functions. Additionally, data from different sources can be combined to identify correlations more easily. A comparison with historical data is also possible. Calculations can now also be performed in a few steps. This convenience simplifies trend analyses, regressions and correlations, providing the foundation for data-driven decision making. Another large improvement: the release now offers more billing options. WAGO incorporated an automated monthly billing op-

tion that uses cloud license points. This allows users to individually set upper-limit thresholds for closely controlling. Additionally, a flat rate for WAGO Energy Data Management (EDM) with fixed costs per WAGO Cloud-connected controller is possible.



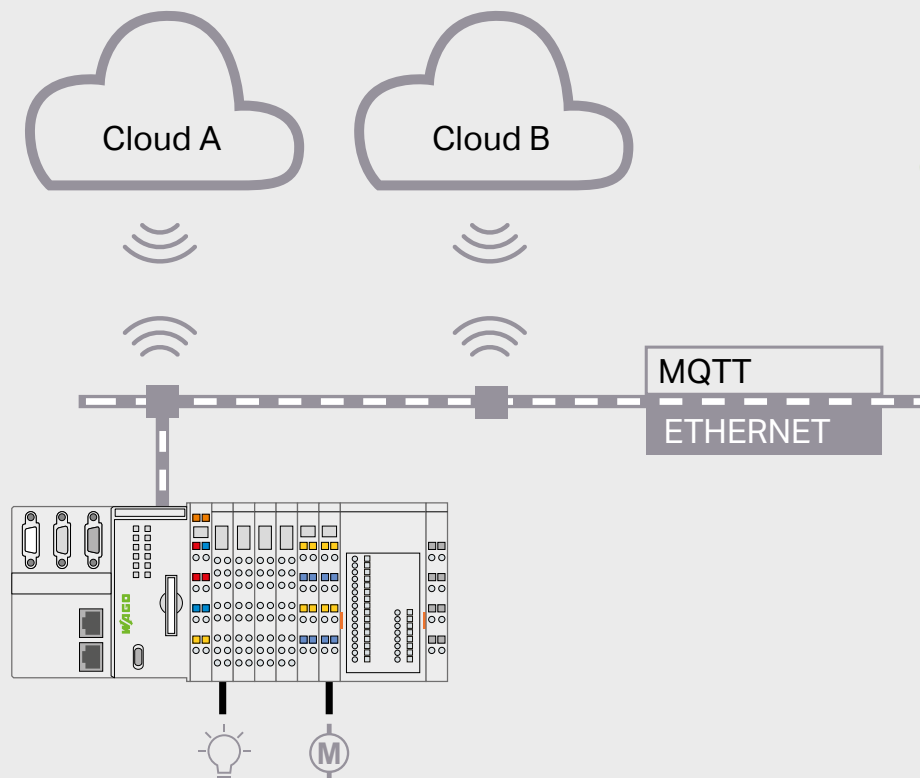
Your Benefits:

- New visualization options
- Easy data evaluation
- Additional billing options



Availability:

December 2020



**MULTI-
CLOUD
CONNEC-
TIVITY**

Use Two Cloud Systems in Parallel

WAGO's PFC200 Controllers and Touch Panels now support Multi-Cloud Connectivity.

WAGO now offers Multi-Cloud Connectivity for PFC200 Controllers and Touch Panels, allowing these devices to be connected in parallel to two different cloud systems, IoT platforms or MQTT brokers. Additionally, Multi-Cloud Connectivity enables different tasks to be implemented in a cloud application. For example, device management is possible within WAGO Cloud, while specific tasks are implemented in another cloud-based solution, e.g., IBM Watson, Amazon Web Services (AWS) or other specialized IoT platform. Data can also be split up, allowing, for example, critical data to go to a local MQTT broker and all other data to a cloud. Configuration is performed via the Web-Based Management (WBM) of the PFC200 or Touch Panel and programming occurs in WAGO's **e!COCKPIT** Engineering Software.



Your Benefits:

- More options and flexibility
- Simple error analysis via configuration in WBM
- Programming in **e!COCKPIT**
- Taking advantage of two cloud solutions/IoT platforms



Item Number:
2759-248/211-1000



Availability:
In stock



OPC UA Server Profiles with Security Features

Communication via OPC UA for WAGO Controllers and Control Panels

Thanks to its flexible, future-proof and expandable architecture, OPC UA is one of the most important communication standards for automation applications. WAGO has now implemented various OPC UA server profiles for its PFC Series Controllers and Control Panels. Standardized functions, which adhere to OPC UA specifications, can be used easily and smoothly in automation applications. WAGO offers OPC UA on its PFC Controllers and Control Panels with the different server profiles – Nano, Micro or Embedded. This enables customized communication with OPC UA clients. Various security features are integrated into the profiles. These include encrypted communication between server and client, authentication via user name and password, and certificate management. This level of security enables secure communication in automation applications with OPC UA.



Your Benefits:

- OPC UA server profiles for PFC and Control Panels
- Customized communication with OPC UA clients



Functionality
is available
free of charge!



Availability:
In stock

Paving the Way for Additional Communication Protocols

The new **e!COCKPIT** versions offer new functions and make new applications possible.

The integrated **e!COCKPIT** development environment supports automation solution development. Version 1.8 makes every step – from hardware configuration to programming, simulation and visualization, to commissioning – even easier. In particular, the new CFC editor in the integrated CODESYS V3.5.15 includes many functions to make your job even more simple and efficient. The telecontrol configurator in **e!COCKPIT** has been upgraded with IEC 60870 master and IEC 61850 client functionality. Furthermore, with the upcoming **e!COCKPIT** version 1.9, WAGO also optionally offers EtherNet/IP as master functionality on the PFC Controllers and Touch Panels, opening up new markets and areas of application.

The controllers and touch panels can operate as EtherNet/IP scanners, controlling any EtherNet/IP adapters (slaves), such as the WAGO I/O System 750 with the EtherNet/IP Fieldbus Coupler (750-363) or selected modules from the WAGO I/O System Field (765 Series). The **e!COCKPIT** Bus Configurator for EtherNet/IP has a familiar and intuitive user interface, reducing the likelihood of configuration errors compared to time-consuming configuration via tables.



Your Benefits:

- Improved CFC editor in **e!COCKPIT** version 1.8
- IEC 60870 Master and IEC 61850 Client in **e!COCKPIT** version 1.8
- EtherNet/IP scanner as an option for several device series from **e!COCKPIT** version 1.9

**NEW
CONFIGU-
RATOR**



Engineering Software
e!COCKPIT
EtherNet/IP®



Item Number:

e!COCKPIT:

2759-0101

e!RUNTIME license
for the EtherNet/IP
Scanner 300:
2759-273/211-1000

e!RUNTIME license
for the EtherNet/IP
Scanner 600:
2759-276/211-1000

e!RUNTIME license
for IEC 60870
Master 300
2759-293/211-1000

e!RUNTIME license
for IEC 61850
Client 300
2759-2243/211-1000



Availability:
November 2020
e!COCKPIT
Version 1.8

Q2/2021
e!COCKPIT
Version 1.9

EtherNet/IP[®]
EtherCAT[®]

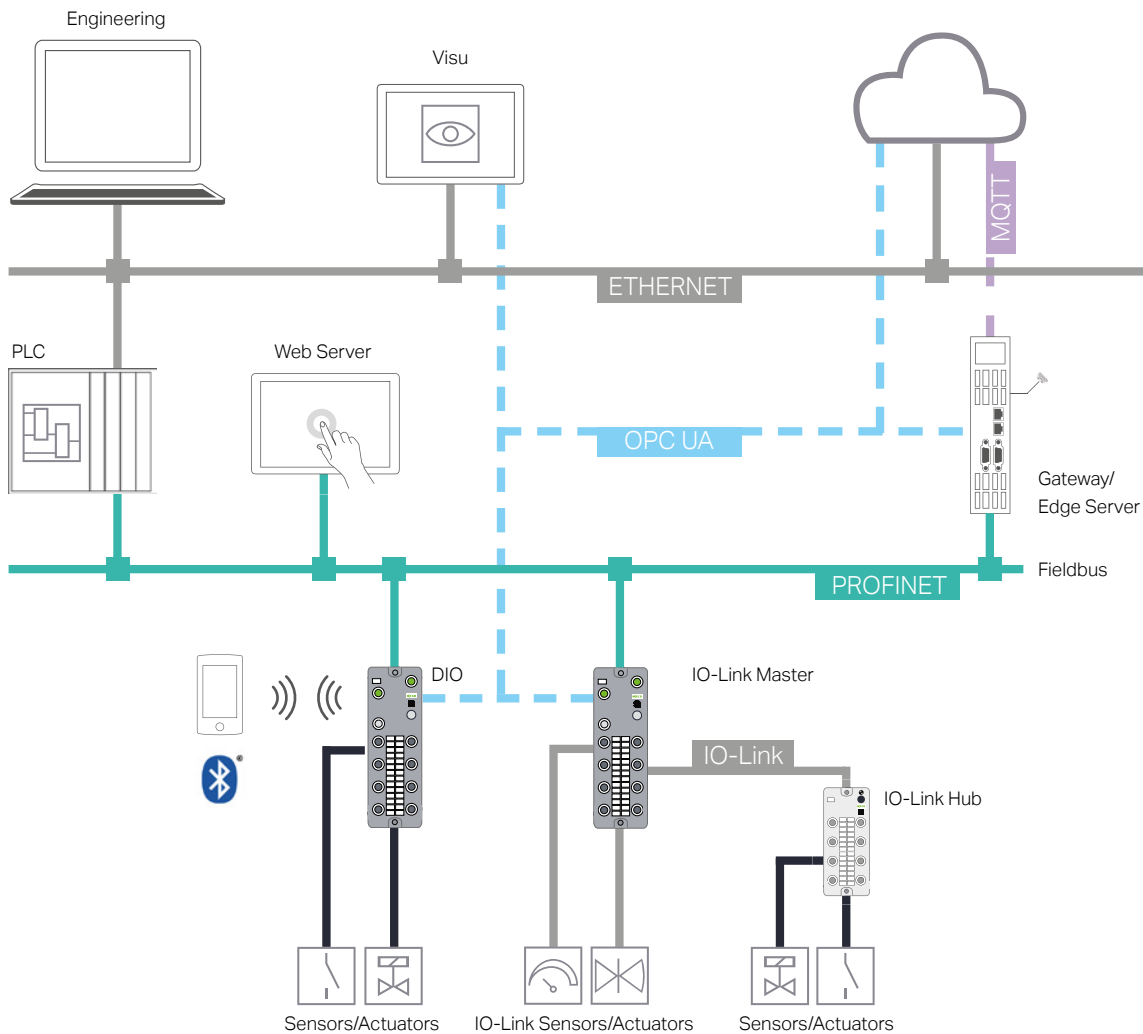


High Field-Level Connectivity

WAGO's IP67 I/O System Field opens up a wide range of applications with different housing styles and new EtherCAT[®] and EtherNet/IP[®] modules.

The WAGO I/O System Field provides uncompromising protection with either its encapsulated metal housings for the harshest environments or robust, non-encapsulated and lightweight plastic housings for mobile applications. The system works safely and reliably at temperatures from -25°C to +70°C. And, customizable mounting options for front and side module installation provide extra flexibility. The modules can be fitted with both WMB Inline markers or marking strips; they also feature a unique serial number identification and a DM code for machine readability. WAGO also expanded the connectivity capabilities offered by I/O System Field:

The I/O modules can be connected to fast, ETHERNET-based fieldbus systems such as PROFINET and now also to EtherCAT[®] and EtherNet/IP[®]. This expansion allows the system to be used in other industries and applications. I/O System Field also integrates a web and OPC UA server. Going forward, the fieldbus modules will also support MQTT as a communication protocol, enabling cloud connectivity. Additionally, the system is ready for TSN, which is crucial for end-to-end, flexible, powerful and secure networking. The IO-Link communication standard enables seamless data flow from the control level to the sensor level. The new WAGO IO-Link Configurator



enables comprehensive and fast IO-Link configuration of the Field I/O system while providing convenient access to all module data. Furthermore, the system's power can be fully utilized by an integrated and innovative supply current load management system.



Your Benefits:

- Housing styles available for any application and machine
- More possibilities thanks to EtherCAT® and EtherNet/IP
- High output current of 2.0 A per channel



Item Number:
765 Series



Availability:
January 2021

#madeforTSN



Monitor and Configure Intuitively

WAGO's Lean Managed Switches enable easy network management without extensive IT knowledge.

Security, robustness and availability – ETHERNET installations must primarily meet these requirements. WAGO's new Lean Managed Switches allow users to quickly (and easily) commission ETHERNET installations. The 8- or 16-port switches (1000 MBit/s port speed) are available with two extra SFP modules as an option for connecting fiber optic cables. A Power over Ethernet version supplies connected devices (e.g., WAGO's 758-919 Wireless Access Point) with up to 30 W of power per port at a typical control

cabinet supply voltage of 24 VDC.

The new switches offer streamlined network management: Commissioning and diagnostics are intuitive and can be performed without extensive IT knowledge. The "Topology Map" clearly displays the switch and connected devices. Additionally, key diagnostic information is displayed on the web-based diagnostics dashboard. Port link down statistics appear on the dashboard if connection problems have repeatedly occurred on a port. This function helps by

Diagram illustrating a network architecture for a multi-level building system, showing various components and their connections.

Legend:

- VLAN 1 (Management)
- VLAN 20 (Building Management System)
- VLAN 30 (Automation)
- VLAN 40 (Locking System)

Network Components and Connections:

- Service Center:**
 - Diagnostics:** BMS, Tool Locking, e!COCKPIT.
 - Fully Managed:** Connected to the Service Center and the main switch.
 - Routing Feature; Static Route; IP Subnet-Based VLAN:** Connected to the main switch.
- Main Switch:**
 - Connected to the Service Center and the main switch.
 - Connected to the main switch.
- Lean:**
 - Connected to the main switch.
 - Connected to the main switch.
 - Connected to the main switch.
 - Connected to the main switch.
 - Connected to the main switch.
- Visu:**
 - Connected to the main switch.
- ERPS (Ethernet Ring Protection Switching):**
 - Connected to the main switch.
 - Connected to the main switch.
- 6. Level:**
 - Connected to the main switch.
 - Connected to the main switch.
 - Connected to the main switch.
 - Connected to the main switch.
- Authentication per IEEE 802.1X:**
 - Connected to the main switch.
 - Connected to the main switch.
 - Connected to the main switch.
 - Connected to the main switch.
- HVAC:**
 - Connected to the main switch.

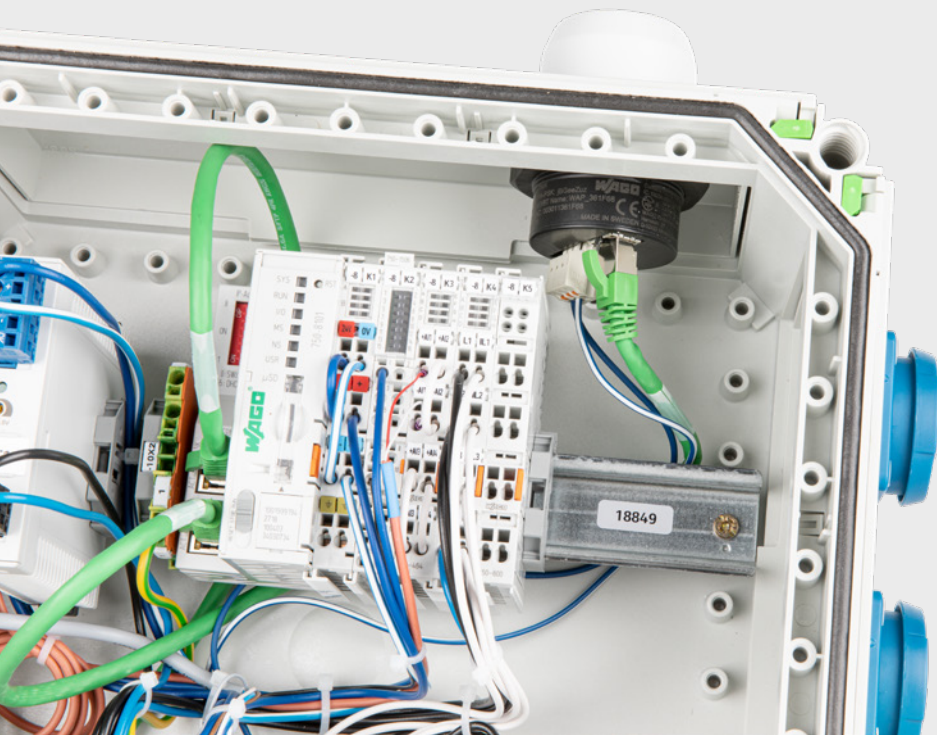
- Transparent and intuitive network configuration
- Easy network troubleshooting without extensive IT knowledge
- Intuitive configuration and life cycle management
- Increased network uptime via fast and easy diagnostics



852-1816
852-1812
852-1813
852-1813/000-001



WAGO NEW PRODUCTS | 13



Communicate Wirelessly with Machines

WAGO'S Wireless Access Point supports WLAN and Bluetooth® for wireless networking.

Wireless communication is a highly attractive option within industrial environments for quickly accessing machines or systems without installing a cable. To easily establish such a connection, WAGO now offers the new Wireless Access Point, which is installed directly into the outer surface of a control cabinet. When installed, it enables wireless transmission via WLAN (IEEE802.11a/b/g/d/n/r), **Bluetooth®** or **Bluetooth®** Low Energy. For example, this integration enables access to the machine controller with a tablet or smartphone or via the PROFINET, Modbus/TCP or EtherNet/IP ETHERNET protocols. Installing the compact Wireless Access Point is incredibly easy. A hole with a diameter of 50 mm must be punched into the housing. The device is inserted through the hole and then tightened from the inside with a suitable M50 nut. Afterward, only the data line via the

RJ-45 connector and, if necessary, the power supply must be connected. Alternatively, a supply via PoE is possible. The housing achieves a lofty IP67 protection rating, enabling use in harsh industrial environments.



Your Benefits:

- **Wireless machine communication**
- **Access to the controller with a tablet or smartphone**
- **Complete package – simply install and start immediately**



Item Number:
758-919



Availability:
November 2020

Ready-to-Use Solutions for Industry 4.0

The WAGO IoT Box is the perfect solution for connecting new and existing systems.

Integrating machines and systems into the "Internet of Things" is incredibly simple with WAGO's IoT Box. The complete system is ready for immediate use and offers all the functions required for digitalization from signal acquisition to cloud connectivity. The IoT Box was designed as a plug-and-play device – no hardware engineering is needed. Collected data is transferred to the desired IoT application in just a few steps. The hardware includes both a controller and communication interface, I/O modules with analog and digital inputs/outputs, a 3-phase power measurement module and a 24 V power supply unit. Depending on the application, additional I/O modules can be added later to adapt the system to specific requirements. Additional options include a protocol gateway to various

fieldbus and control protocols or the evaluation and pre-processing of data using PLC functionality and/or applications under Linux®, including Docker®.



Your Benefits:

- Ready to use
- Hardware/software expandable and customer-specific adaptable
- Flexible connection via ETHERNET or mobile network

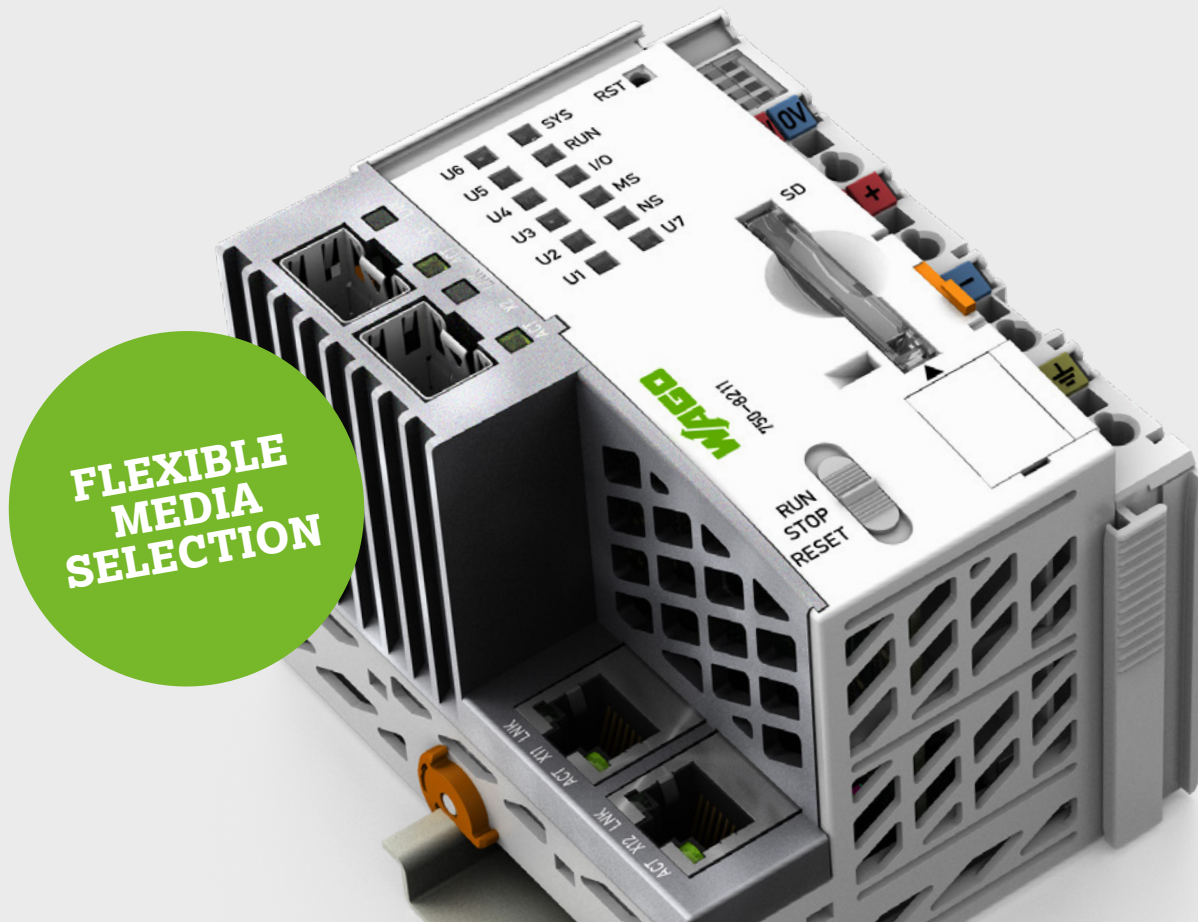


Item Number:
2854 Series



Availability:
November 2020





Flexibly Connect Fiber Optic Cables

The WAGO Controller PFC200 is now also available in a version with two SFP slots.

Fiber optic cables excel at transferring data over long distances or in environments with many interfering electromagnetic signals. For such applications, WAGO has expanded its portfolio with this new PFC Controller model that dramatically simplifies fiber optic communication. The PFC200 has two SFP (Small Form-factor Pluggable) connection slots; SFP is a common IT interface. The PFC200 also has two RJ-45 ports for 100BASE-TX. Various modules can be installed in the SFP slots (e.g., for connecting single-mode or multimode optical fiber), allowing LC connectors to be plugged into these. For users who need a fiber optic network connection, the PFC200 eliminates the need for an additional media converter in the control cabinet.



Your Benefits:

- Ports for various SFP modules
- Direct connection without additional switch
- Ideal for high EMC applications or long transmission paths



Item Number:
750-8211



Availability:
December 2020

Top Solution for LTE Networks

WAGO's PFC200 Controller incorporates a 4G cellular modem for location-independent applications.

WAGO's PFC200 Controller is now available with an integrated 4G cellular modem for communication within LTE networks. The continued development of the proven PFC200 makes automation solutions with mobile connectivity future-proof. Combining a controller and cellular modem into one compact solution saves control cabinet space. The combination also offers several cybersecurity advantages because tampering with or replacing the modem is not possible. The new version of the PFC200 for LTE networks is particularly powerful. The 1 GHz Cortex A8 CPU offers ample computing power for complex control tasks. The PFC200 can connect to the Internet via the cellular modem. The mobile communication settings can be configured directly via the controller's Web-Based Management. The IEC 60870-5-101, -103 and -104 telecontrol protocols, which are important for the energy industry, can be optionally enabled on the controller. A magnetic-mount antenna with a

2.5 m connecting cable and an SMA right-angle plug is also available. In addition to LTE, the antenna supports all standard wireless technologies.



Your Benefits:

- PFC200 with a 4G cellular modem for LTE networks
- Space-saving combination of controller and cellular modem
- High security against unauthorized manipulation



Item Number:

PFC200 4G:
750-8217
Magnetic-Mount
Antenna: 758-975



Availability:

In stock



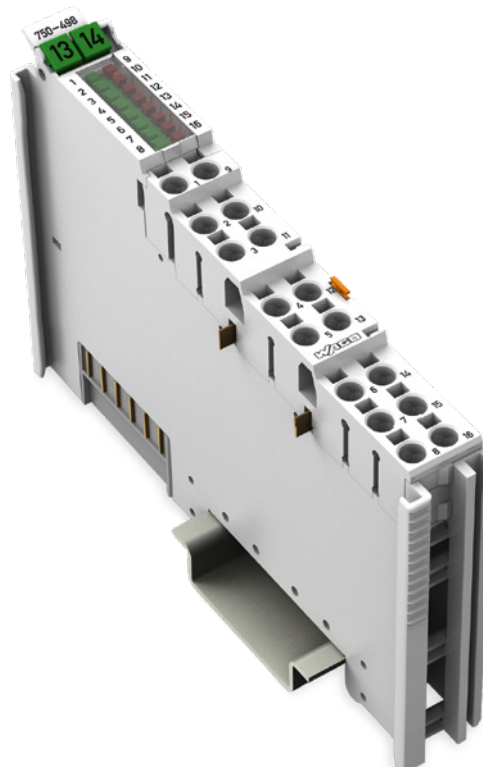


Connect Eight Thermocouples in 12 mm

New Analog Input Module for Thermocouple Measurement

The new WAGO 750-498 Analog Input Module is ideal for recording signals from multiple thermocouples in the field. Packaged in a width of just 12 mm, it offers eight channels that can be individually configured for thermocouples of types K, J, B, E, N, R, S, T and C. The thermocouples are connected via 2-wire technology. The I/O module performs cold junction compensation and then directly outputs the measured temperature value. The temperature resolution is 0.1°C. The module can also be used for voltage measurements in the ranges ± 30 mV, ± 60 mV, ± 120 mV or ± 240 mV. The field level

and the system level are electrically isolated from one another.



Item Number:

750-498



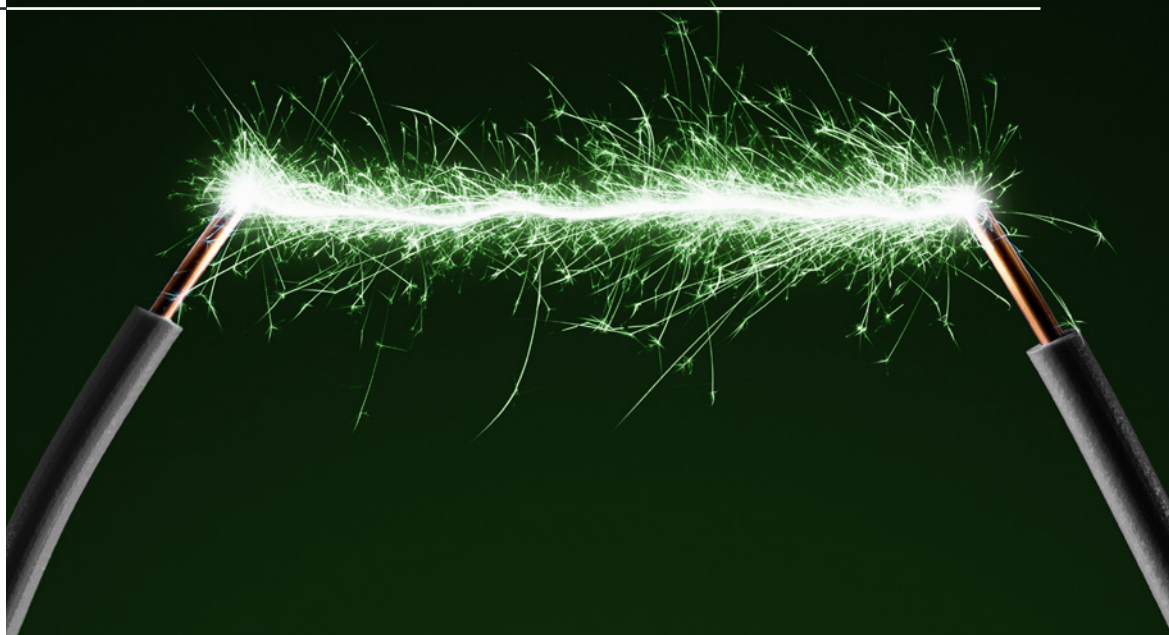
Availability:

In stock



Your Benefits:

- Slim design
- Internal cold junction compensation
- Low measurement error ≤ 1 K (depending on type and temperature range)



Wear-Free Switching up to 2.0 A at 30 V

New digital output modules offer semiconductor switches for AC and DC loads.

For short switching cycles, wear-free semiconductor switches based on MOSFET are typically best. This is why WAGO now offers two modules that can switch currents of up to 2.0 A at voltages of 30 V – for both AC and DC loads with the same device. The digital output module 4DO 30 VAC/DC 2.0 A SSR (750-527) and the potential-free version 4DO 30 VAC/DC 2.0 A SSR/isolated (750-528) for the WAGO I/O System 750 have four channels in a width of just 12 mm. When only low voltages but high currents need to be switched, these semiconductor switches are superior to mechanical relays

because they offer economical operation that's free of wear-and-tear.



Item Number:

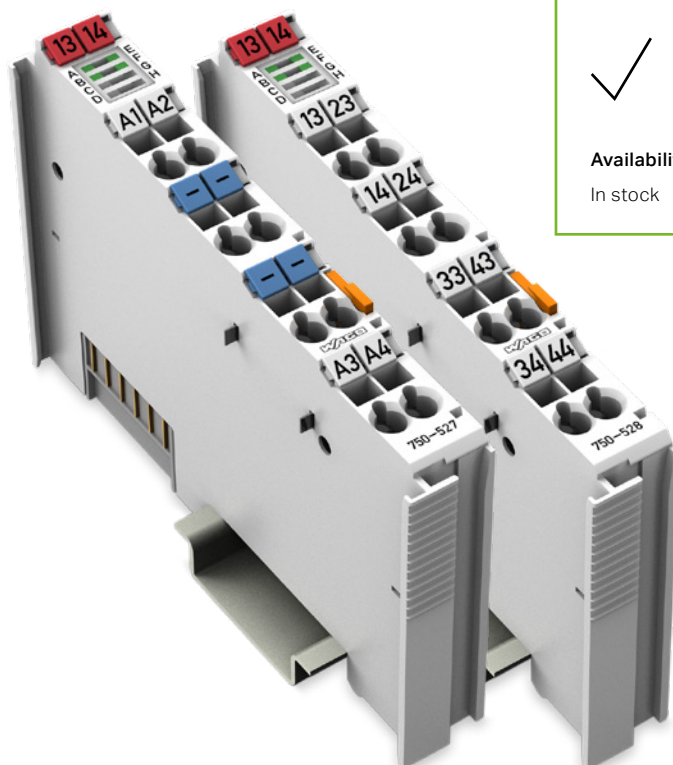
750-527

750-528



Availability:

In stock



Your Benefits:

- One module switches AC and DC loads
- Wear-free semiconductor switch
- Four channels in a 12 mm wide module

Recording Signals from Resistor Bridges and Strain Gauges

Analog input module for hazardous areas incorporates new functions.

Developed for Ex areas, WAGO's new analog input module from its industry-proven I/O System 750 family offers four functional, electrically isolated channels in a 24 mm width. WAGO's 4AI RTD/TC/Strain Gauge Ex i Intrinsically Safe Module directly connects to resistance thermometers, resistors, thermocouples, millivolt encoders, potentiometers and PTC thermistors. Among the new module's advantages: Signals of resistor bridges (e.g., strain gauges) from hazardous areas in zones 0 and 1 can now be measured directly. The WAGO I/O System 750 must be installed either in zone 2 or in a non-hazardous area. A 24 V Ex i supply is required for the supply voltage that's provided via the I/O module's power jumper contacts. The cold junction compensation required for the thermocouples is located inside the module and is designed for each channel. With a resolution of 16 bits, the signals

are recorded accurately and quickly. Parameterization of the new module can be performed via GSD file, **e!COCKPIT** or WAGO-I/O-CHECK software programs.



Your Benefits:

- Record signals from resistor bridges (e.g., strain gauges) in the Ex area
- Four functionally electrically isolated channels
- Integrated cold junction compensation



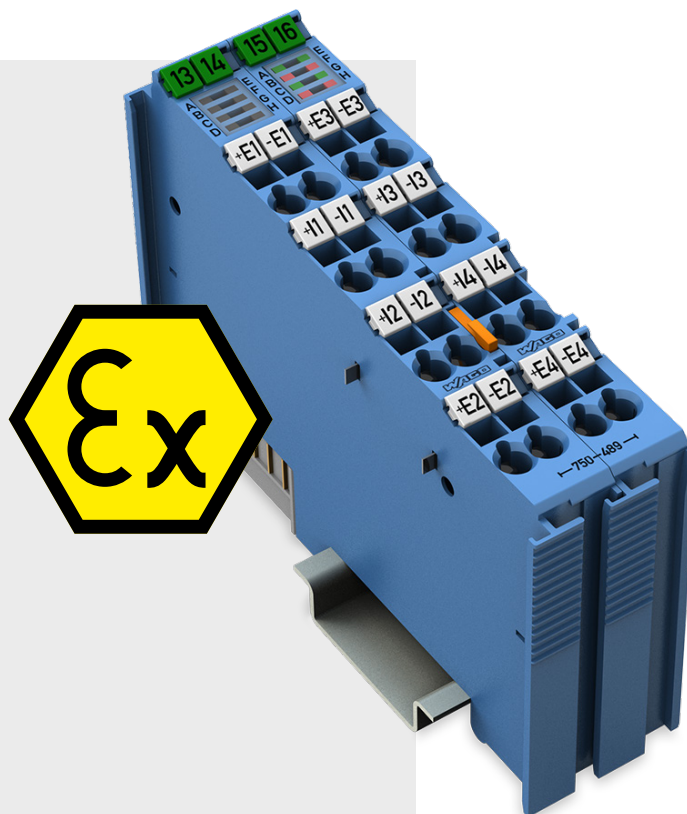
Item Number:

750-489



Availability:

In stock





Directly Evaluate Resistor Bridges

New Analog Input Module with Two Channels for Strain Gauges and Load Cells

Resistor bridge circuits have a variety of uses, including strain gauges, force sensors and load cells. WAGO's new 2AI Resistor Bridge (Strain Gauge) Analog Input Module directly connects such resistor bridges to the WAGO I/O System 750. The module has two channels and directly provides the reference voltage, trimming wiring and associated costs. Packaged in a width of just 12 mm, the module also saves control cabinet space. Furthermore, the evaluation of the resistor bridges is highly accurate thanks to a resolution of 16 bits. Finally, the wide input voltage range of ± 300 mV enables the connection of different sensor types.



Item Number:

750-1491



Availability:

December 2020



Your Benefits:

- Connect resistor bridges, load cells and strain gauges
- Two channels in one 12 mm wide module
- Internal reference voltage saves wiring costs



Convenient and Clear Lighting Control

New, Intuitive User Interface for WAGO Lighting Management

Once WAGO Lighting Management has been installed and commissioned, the focus shifts to operation and monitoring while the system runs. The new visualization provides a streamlined user interface for this focus. Whether on a desktop computer, touch panel, tablet or smartphone, the HTML5 Web user interface allows clear and convenient operation of the entire lighting system that's accessible with a standard Web browser. A responsive design ensures perfect display on all end devices. The visualization of the lighting system's operating data always keeps users informed of the entire lighting system's current status. Simultaneous access to several lighting management controls is also possible via the new visualization interface. In addition to language and color settings, HMI devices, users, rooms and custom profiles

can be easily created and managed. Through these capabilities, you can fine-tune lighting to meet incredibly specific needs.



Your Benefits:

- Intuitive operation
- Individually designed user interface
- Visualize several lighting management controls



Item Number:

2759-204/261-1000
2759-2101/271-1000
2759-2102/271-1000
2759-2103/271-1000



Availability:

In stock

Comprehensive Energy Management with OPC UA and Energy Meter Integration

WAGO Energy Data Management impresses with system openness and data transparency.

Holistic energy management that complies with ISO 50001 requires a transparent and open-interface data management system – it doesn't matter if it's in manufacturing, building technology or the process industry. This is exactly what the WAGO Energy Data Management software enables. WAGO's energy solution supports several bus systems and communication protocols, allowing a wide variety of locally recorded data to be accessed. The focus here is on the industry-proven data exchange standard "Open Platform Communications Unified Architecture" (OPC UA). An additional advantage: In billing-relevant applications with MID-standardized energy meters, data can be recorded simultaneously with analysis and exported via Modbus® – without extra hardware. Recording and collecting data is one thing, but for successful energy management, data must be prepared and its relevance must be visible at a glance to facility

managers, energy management teams or planners. The main focus is on data transparency and key energy figures. And this is exactly what the software-independent dashboards in HTML5 provide. They display a wide variety of parameters and show relationships between them – all in a user-friendly manner, with expandable details.



Your Benefits:

- **Extensive connectivity options thanks to OPC UA**
- **Record data simultaneously to the analysis without additional hardware**
- **Clear, user-friendly and software-independent dashboards in HTML5**



Application and Visualization of Energy Data Management:

2759-206/261-1000
2759-207/271-1000

Energy Meters:

879-3000
879-3020
879-3040



January 2021



Easy Installation and Configuration

New Compact Energy Meters with Large Displays

Comprehensive energy measurement is necessary for optimizing energy consumption. WAGO's portfolio now has new energy meters that simplify this task while offering several key advantages. In addition to the values for active and reactive energy, the energy meters also record the mains frequency, as well as current, voltage and power for all phases. And the user can conveniently scan all of these energy characteristics at a glance on a large, illuminated display. The new energy meters are true communication professionals. All devices have both an M-Bus and a Modbus® interface for users to select from. In addition, two S0 interfaces are available for both energy directions, and the pulse rate is adjustable. Configuration and operation of the new meters are refreshingly straightforward: A large display simplifies use via integrated touch-sensitive controls. A configuration app can also be used that communicates with the device via **Bluetooth®**. With these new energy measurement devices, a wide variety of building or industrial applications can be implemented thanks to the MID declaration of conformity. Applications with consumption billing are also possible. They use Push-in CAGE CLAMP® with levers, allowing them to connect very

quickly and easily. The devices have a width of just 72 mm for direct measurement; versions for current transformers are even slimmer at only 35 mm. These widths save a tremendous amount of control cabinet space.



Your Benefits:

- **Record values for active and reactive energy, mains frequency, as well as current, voltage and power for all phases**
- **Applications with consumption billing are possible through compliance with MID directive 2014/32/EU**
- **Intuitive configuration through touch-sensitive controls and configuration app via *Bluetooth®***
- **Saving time at every level thanks to Push-in CAGE CLAMP® and levers**



Item Number:

879-3000

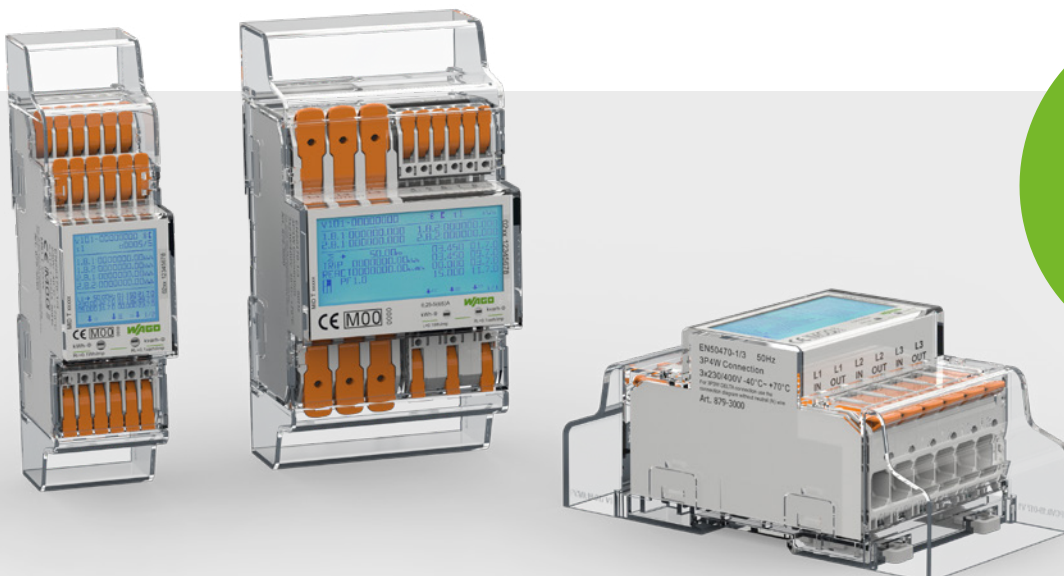
879-3020

879-3040



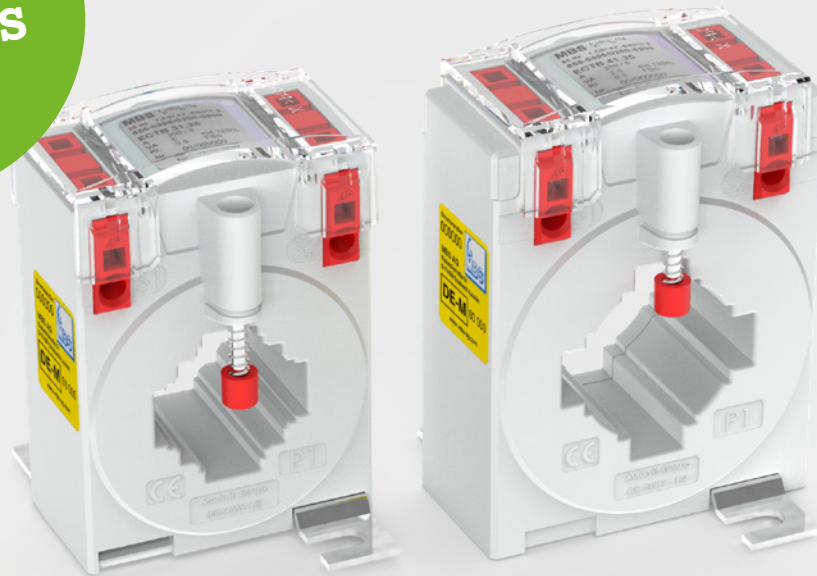
Availability:

January 2021



**MID-
COMPLIANT**

16
VARIANTS



All-in-one solution from a single source

WAGO Current Transformers and Energy Meters (MID)

Plug-in current transformers for billing purposes join WAGO's range of current and energy measurement solutions. These transformers comply with the conformity assessment procedure (module D) and perfectly match the new WAGO Energy Meters (MID) for a complete solution. A quick-mount kit allows easy, cost-effective installation. A large number of mounting options give users tremendous flexibility. The new plug-in current transformers are used in applications where the current of large consumers cannot be measured directly. A real-world example is measuring manufacturing machines' energy consumption in order-related production or when individually billing the energy consumption per tenant in distributed properties.



Your Benefits:

- Approved for billing purposes
- Readily combinable with the energy meter with a transformer connection (879-3040)
- Screwless CAGE CLAMP® connection technology



Item Number:
855 Series



Availability:
November 2020

POWER SUPPLIES OF THE FUTURE



Let Power Communicate

WAGO Power Supplies Pro 2

Cost-effective, fast and flexible – the demands placed on modern power supply systems are continually increasing and cost-cutting pressures are ever-present. In addition, there are global megatrends that are forcing entire branches of industry to undergo far-reaching changes. Digitalization, Industry 4.0 and the “Internet of Things” have fundamentally changed the way we work and are influencing the planning and strategy of companies worldwide. Whereas resource conservation (particularly energy) was once optional, rising material and energy costs compounded by climate-driven laws and regulations have moved efficiency front and center. Learn how you can react to these increasing challenges

with the WAGO Power Supply Pro 2. Pro 2 sets new benchmarks for communication and parameterization. It can connect to both a PLC and IoT gateway via a snap-on type communication module (currently, IO-Link, Modbus RTU and Modbus TCP; ETHERNET-based protocols, such as Ethernet IP, are on the horizon). Data from the WAGO Power Supply Pro 2 (PSU) can be stored and analyzed for energy optimization. The central PLC can switch off the distributed PSU in parts of the system via a hardware signal or bus command. Shut-off activates an energy-saving stand-by mode that pairs with the unit’s monitoring functions to provide information about



current power supply or connected load data. These slimline power supplies combine an exceptionally high-power density with excellent efficiency, requiring less space and generating less heat in the control cabinet. The Pro 2 boasts an energy conversion efficiency of up to 96.3 percent. The combination of highly efficient power electronics and digital control provides savings on energy and operating costs, while cutting CO₂ emissions.



Your Benefits:

- New benchmarks for communication and parameterization
- High efficiency, less space in the control cabinet
- New, future-proof features like Top-Boost and PowerBoost



Item Number:
2787 Series
2789 Series



Wide Application Range Thanks to New 12 V/24 V/48 V Models

Extended Product Range for the Manufacturing Industry

The WAGO Pro 2 Power Supply portfolio is expanding with the addition of 12 V, 24 V and 48 V models. These new devices support a wide variety of applications, such as supplying power to stepper motors, miscellaneous DC drive technology, powerful contactors and other components. The expansion brings the Pro 2 Power Supply hallmarks of reliability, cost savings and safety (thanks to integrated communication for monitoring and parameterization) to 12 VDC, 24 VDC and 48 VDC devices. Using a power supply unit to monitor the power supplied to the drive technology can significantly increase the fail-safe nature of a specific application. The power reserves of the subordinate power supplies are also ideal for start-up and sudden load changes.

WAGO's line of Pro 2 Power Supplies, with units ranging from 120 to 960 W, sets new industry communication and parameterization benchmarks. It also offers energy conversion efficiency of up to 96.3%. These new pow-

er supplies permit fieldbus connection via snap-on type communication modules and feature WAGO's exclusive high-performance TopBoost and PowerBoost capabilities for maximum system uptime and lower hardware costs.



Your Benefits:

- The power reserves of the subordinate power supplies are ideal for start-up and sudden load changes.
- Operational reliability and fail-safety
- All of the familiar WAGO Pro 2 Power Supply features continue to be available.



Item Number:

2787-2134
2787-2135
2787-2154
2787-2157
2787-2344*
2787-2346
2787-2357
2787-2358*



Availability:

*Q2/2021

Can Now Communicate via ETHERNET

Pro 2 fully supports Modbus TCP.

In addition to IO-Link and Modbus RTU, WAGO's Pro 2 Power Supplies now also communicate via ETHERNET. The new communication module (2789-9052) supports the Modbus TCP and Modbus UDP ETHERNET protocols and has an integrated Webserver. Sending a maintenance team through the production hall was yesterday – today, the current status can be viewed conveniently via browser. The communication module can also be retrofitted to existing WAGO Pro 2 Power Supplies and rapidly transmits incredibly high data volumes. Whether it's output voltage, output current, boost and overload behavior, switch-on behavior, signaling, warning thresholds and much more – everything can be adjusted or monitored within milliseconds and independently of personnel qualification. Integration into the control system via OPC is also easy thanks to Modbus TCP and Modbus UDP protocol support. All this saves costs during commissioning, maintenance and operation, while increasing reliability and availability.



Your Benefits:

- **Communication module – can also be plugged in subsequently, making it future-proof**
- **Fast and comprehensive communication via standard ETHERNET protocols**
- **Fast monitoring and online parameter setting for quick reaction to application changes**
- **Direct access to all features of WAGO's Pro 2 Power Supplies**



Item Number:

2787-9052



Availability:

Q1/2021





WAGO Power Supplies Eco 2 with Push-in Technology and Lever Connection

Efficient and Reliable Power Supplies

The Eco line of power supplies now includes new WAGO Eco 2 Power Supplies with push-in technology and integrated WAGO levers. The new devices' compelling features include fast, reliable and tool-free lever connections, as well as an excellent price/performance ratio. Many basic applications only require 24 VDC. This is where WAGO's Eco Power Supplies excel as an economical solution. At 25 mm and 38 mm wide, the new power supplies (2687-2142 and 2687-2144) are slim and compact. The devices are also extremely durable and reliable with their high efficiency of $\geq 88\%$ (2687-2142) and lower thermal generation. WAGO's WMB markers or marking strips can be used for all types of rail-mount terminal blocks and power supplies.

Additional technical information:

- Power supplies with a wide input voltage range of 90 ... 264 VAC (100 ... 373 VDC)
- Output voltage: 24 VDC, adjustable; Output power: 30 W (2687-2142) and 120 W (2687-2144)



Your Benefits:

- **Integrated, tool-free lever-actuated push-in connection technology**
- **Slim design, high efficiency, good price/performance ratio**
- **Reliability, long service life (high MTBF)**
- **Quick, easy, maintenance- and tool-free connection technology**



Item Number:

2687-2142 (30W)
2687-2144 (120W)



Availability:

Q1/2021

Protect Small Currents Easily

New WAGO 0.5 A Electronic Circuit Breaker

With WAGO's single-channel circuit breaker (787-2861 / 0050-0000), even small load currents of 0.5 A can now be easily protected in control circuits. Quick, reliable tripping after 4 ms is guaranteed with all seven available circuit breakers. In addition, the circuit breaker saves space in the control cabinet or system distribution box with its overall width of just 6 mm. Different control options for the integrated digital input allow channels to be set to a specific state, increasing usability. The digital output reports the current status. Identical profiles allow direct commoning of the input and output voltages across 857 and 2857 Series devices.



Your Benefits:

- Protection of load currents from 0.5 A to 8 A
- Slim 6 mm (0.236 inches) housing saves space
- Reliable tripping of the circuit breaker after just 4 ms



Item Number:

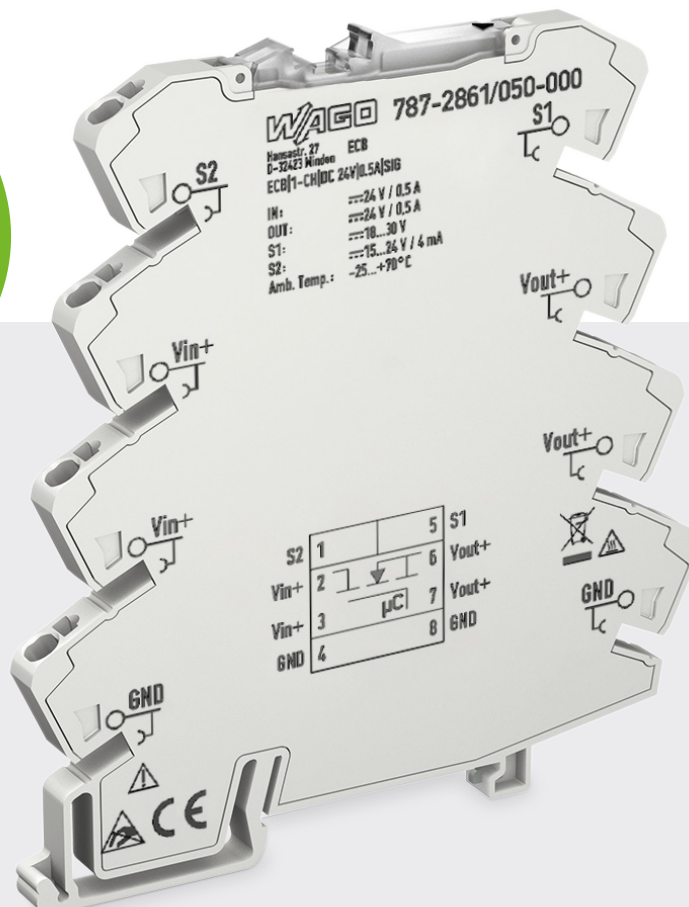
787-2861/050-000



Availability:

In stock

**NEW:
0.5 A**





**EARLY
FAULT
DETECTION**

Early Ground Fault Detection

Increasing Availability via Improved and Preventive Maintenance

According to the IEC 60204-1 standard, measures must be taken to reduce the probability of malfunctions due to insulation faults/ground faults in a control circuit. A common option is connecting 0 V to the ground potential in the control circuit, in combination with an up-stream fuse. With the new ground resistance signaling module, WAGO offers the possibility of detecting not only the 0 V grounding, but also the full and automatic undershooting of a non-adjustable, unbalanced insulation resistance between +24 V or 0 V of the supply voltage and ground. An integrated potential-free contact can be used to signal the Iso OK status to a controller. Additionally, on-module LEDs clearly indicate the insulation fault to the operator.

Compared to mechanical ground conductor disconnect terminal blocks, maintenance is considerably simplified. With this new module, a permanent insulation resistance test can now be performed every three months instead of the standard manual ground fault test. Early detection of imminent ground faults enables improved preventive maintenance, ensuring increased system uptime. A slide

switch allows the user to select the grounded/ ungrounded control circuit operating mode. However, the module does not meet the requirements for insulation monitoring devices according to IEC 61557-8.



Your Benefits:

- Automated insulation resistance measurement
- Early detection of potential ground faults
- Insulation fault indication via LEDs and potential-free contact



Item Number:

789-665

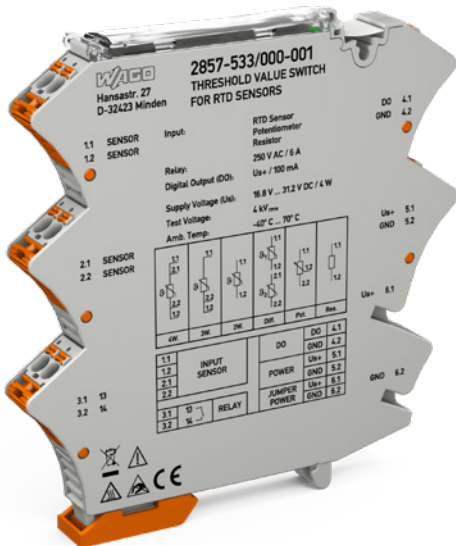


Availability:

Q1/2021

Threshold Value Switch for Railway Applications

Safe 3-Way Isolation per EN 61010-1



WAGO's new threshold value switch with a coated PCB meets all major standards – from railroad noise (per EN 61373) to temperature influences (per EN 50155) to electromagnetic compatibility (per EN 50121-3-2).



Your Benefits:

- An even broader portfolio of suitable signal conditioners to choose from
- Reach deeper into the railway industry with standard-compliant products
- Safe 3-way isolation with 4 kV test voltage per EN 61010-1



Item Number:

2857-533/000-001



Availability:

In stock

New Interface and Coupler Modules

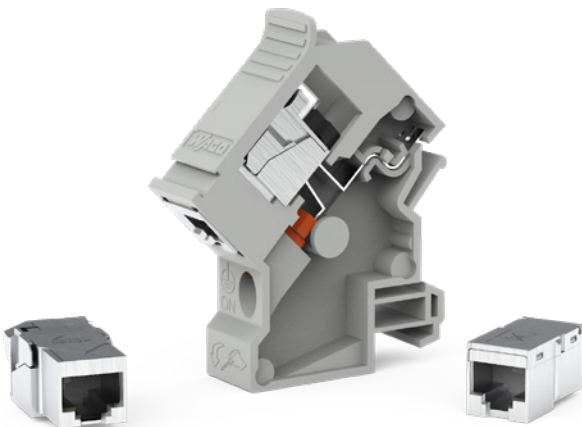
30 Percent Less Space Required with Integrated Shielding

The new RJ-45 Cat. 6 A Interface Module and the RJ-45 Cat. 6 A Coupler Module are ideal for 10 Gigabit Ethernet (10GBASE-T) and high-speed applications up to 500 MHz.



Your Benefits:

- Easy and fast extension of existing cables
- 30% less space required than before
- For Cat. 6 A applications
- Only one item needed for both connection diagrams via TIA-568A/B wiring
- Integrated shielding option with front-side disconnection



Item Number:

Interface Module:

289-197

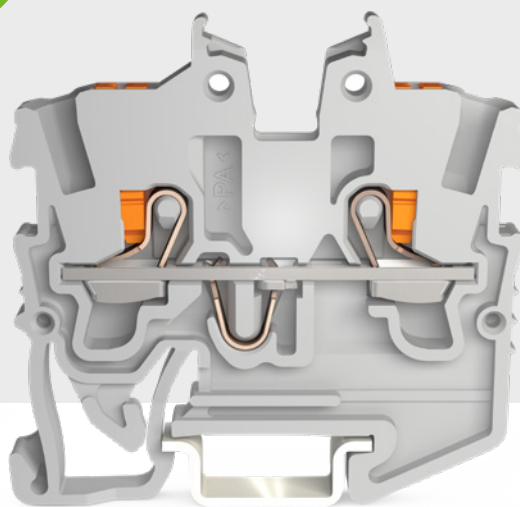
Coupler Module:

289-198



Availability:

In stock



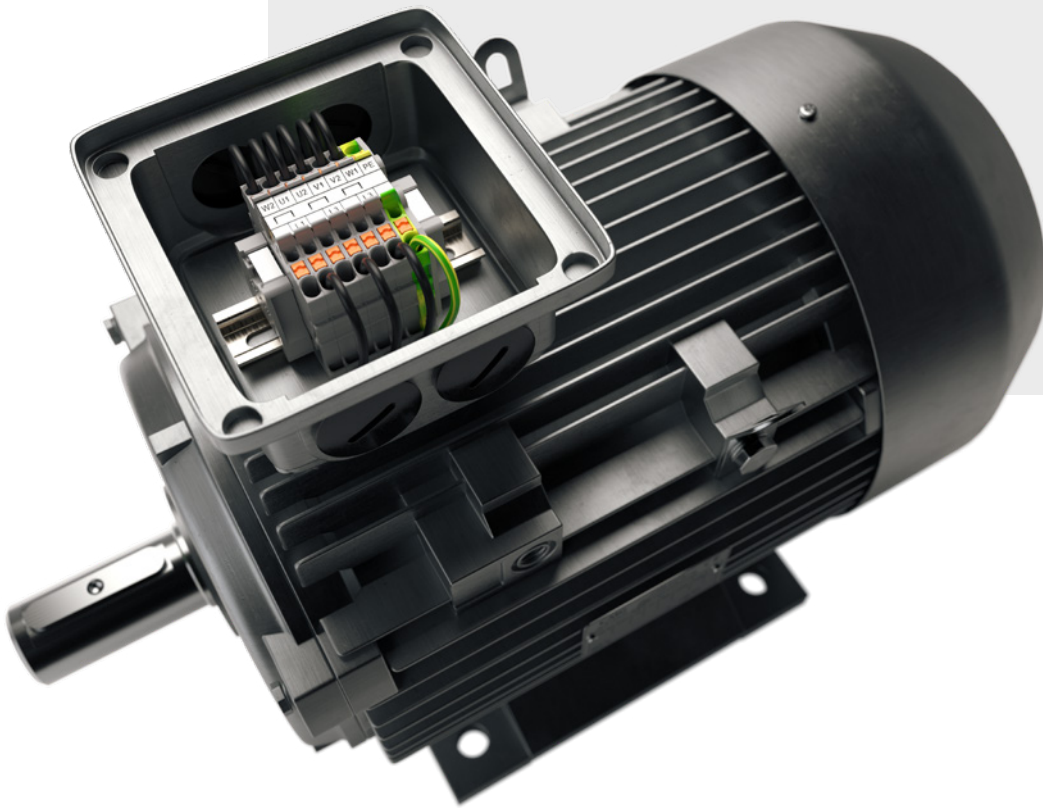
Full Range in the Smallest Space

WAGO Mini Terminal Blocks TOPJOB® S in a Compact Design

With the WAGO Mini Terminal Block TOPJOB® S (1 mm²/18 AWG nominal cross-section), WAGO expands its range of TOPJOB® S Rail-Mount Terminal Blocks with a miniature version. WAGO's new Mini Terminal Blocks are incredibly compact, making connection in the cramped terminal boxes of motors or pumps, for example, much more convenient. In addition, they offer various mounting options to provide exceptional flexibility. They can be mounted directly on a 15 x 5.5 mm DIN-rail or on a mounting plate with a flange

or snap-in mounting foot. The name, TOPJOB® S Mini Terminal Blocks, makes it clear that the popular accessories from the TOPJOB® S Rail-Mounted Terminal Blocks, such as jumpers and marking strips, can be used. There are also two actuation variants: Terminal blocks with push-buttons or operating slots, both of which also allow direct termination via Push-in CAGE CLAMP® connections.

A REAL SPACE GENIUS!



Your Benefits:

- Compact design
- Installation flexibility
- Push-in CAGE CLAMP® termination
- Can be used up to 500 V IEC/300 V UL



Item Number:

2250 + 2050

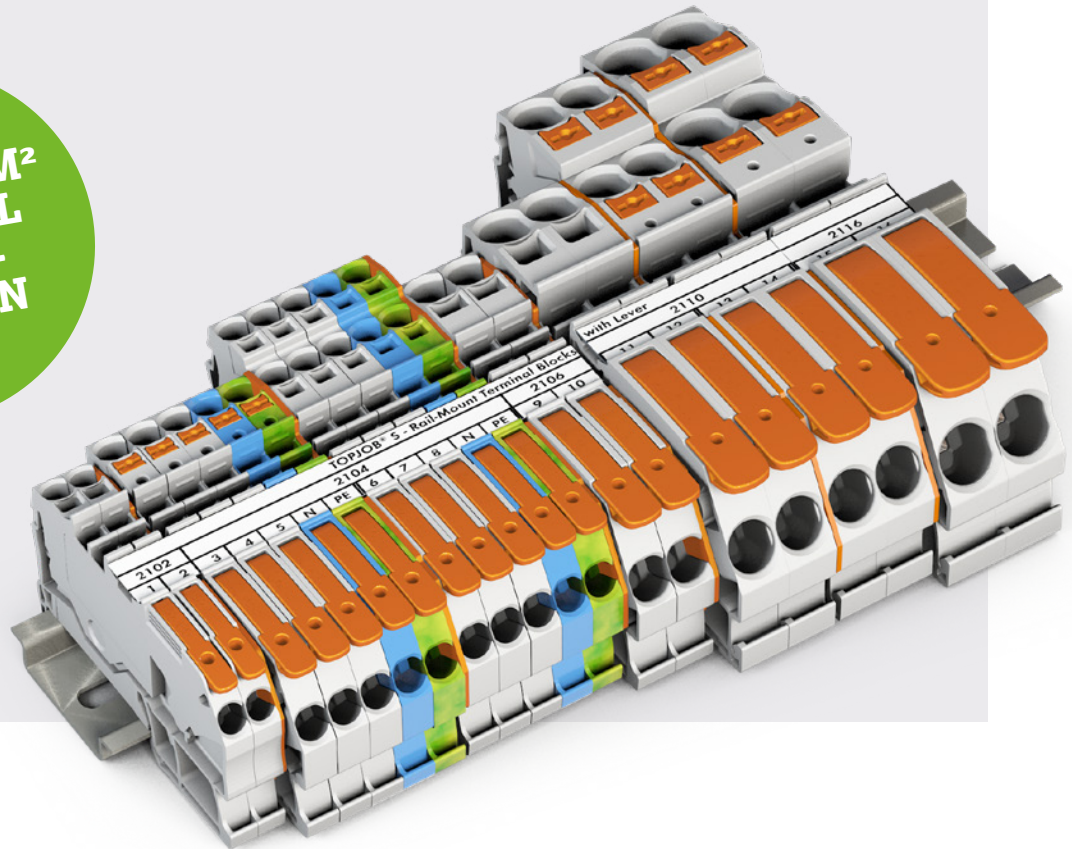
Series



Availability:

In stock

**NEW: 4 MM²
NOMINAL
CROSS-
SECTION**



Portfolio Expansion of WAGO's Lever Terminal Blocks

The Portfolio Grows: New TOPJOB® S Rail-Mount Terminal Blocks with Levers

The newly developed TOPJOB® S Rail-Mount Terminal Blocks with levers, for a nominal cross-section of 4 mm²/12 AWG, builds on the existing range of WAGO Through Terminal Blocks. With this newest variant, rail-mount terminal blocks with levers are now available with nominal cross-sections from 2.5 mm² to 16 mm² (14 to 6 AWG). It fits perfectly into the overall range of TOPJOB® S Rail-Mount Terminal Blocks and can be easily combined with existing terminal blocks, whether with operating slots or push-buttons. For example, the same jumpers and the same marking system are used. Its compelling feature is the intuitive lever-operated connection, which requires no tools for operation and marks the open clamping point when open. The rail-mount terminal blocks with levers are suitable for, among other things, quick and easy mains connection.

The 2- or 3-conductor through terminal block is available in gray, blue and green-yellow for ground conductors. It has an external connection with lever actuation; internal connection is handled via an operating slot or push-button. Simultaneously connecting multi-core sheathed cables that are usually difficult to bend is particularly convenient thanks to the lever. In addition, the lengthy time required for any rewiring is reduced by intuitive and tool-free lever operation.



Your Benefits:

- Tool-free wiring
- Time saving with frequent rewiring
- Intuitive operation



Item Number:

2104-120x
2104-130x
2104-520x
2104-530X



Availability:

In stock

More Possibilities with the 35° Terminal Block

WAGO adds a through terminal block with push-buttons to its TOPJOB® S portfolio.

The TOPJOB® S family gains a new member: Starting in 2020, the 35° terminal block with push-buttons will be available in the 2202 Series as a suitable component for wiring systems with comb plates. The through terminal block's design has been deliberately shortened so that it can be used in combination with these systems. At the same time, the terminal block has been designed with a 35° inclination, easing conductor feed-in when used with a cable comb. Comb plate systems, which are a vital component of ductless wiring systems, promote ventilation and air circulation in the control cabinet to enhance climate management. This type of control cabinet wiring is prevalent in the automotive industry, within railway systems and the manufacturing sector. This extremely compact design is also ideal for other applications, such as traffic light poles, where other types of terminal blocks cannot be accommodated. The 35° terminal block from WAGO is available in gray, blue or green/

yellow and as variants with an operating slot or push-buttons as 3- and 4-conductor versions. The entire range of TOPJOB® S accessories, such as markers and jumpers, can also be used with these terminal blocks.



Your Benefits:

- Through terminal block perfectly sized for wiring systems with comb plates
- Compatible with all TOPJOB® S accessories (e.g., markers and jumpers)
- Variants with an operating slot or push-buttons available



Item Number:

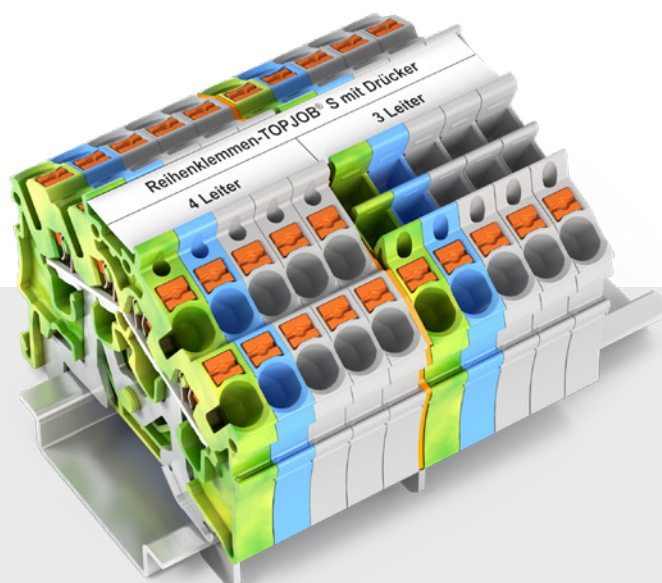
2202-630x

2202-640x



Availability:

In stock



Maximum Device Design Flexibility

Always find the right connection – with WAGO's THT Female Headers from the MCS MAXI 6 PCB Connection System.

Wire-to-board (W-to-B), board-to-board (B-to-B), board-to-wire (B-to-W) or wire-to-wire (W-to-W)? No matter what type of connection solution your power electronics application needs, WAGO's MCS MAXI 6 PCB Connection System has the solution with new THT female headers. With the headers, the system now supports all connection variations, providing the unmatched versatility that gives drive and control technology developers more design freedom. WAGO's MCS MAXI 6 Connection System enables high current carrying capacities of up to 57 A and, with the new THT female headers, offers even greater flexibility when designing power electronics connections. Now, it is possible to combine a THT female header with a THT male header to connect two boards (B-to-B) easily and flexibly. The touch-proof THT female header, combined with a 1-conductor male header (B-to-W), maximizes safety for PCB power outputs. At the same time, the power inputs and outputs are readily identifiable both visually and functionally. Furthermore, WAGO's MCS MAXI 6 Connectors are 100 percent protected against mismatching

and can be printed and coded to meet customer requirements. The THT female headers are available as 2- to 9-poles straight or angled models in 7.62 mm pin spacing. They have three solder pins per pole, providing a highly stable mechanical and electrical connection to the PCB. The test opening is easily accessible at a 90° angle to the mating direction.



Your Benefits:

- Several connection options provide superior design flexibility
- Connect two PCBs (board-to-board) with a high current carrying capacity of up to 57 A
- Solderable female header for a touch-proof PCB output (board-to-wire)



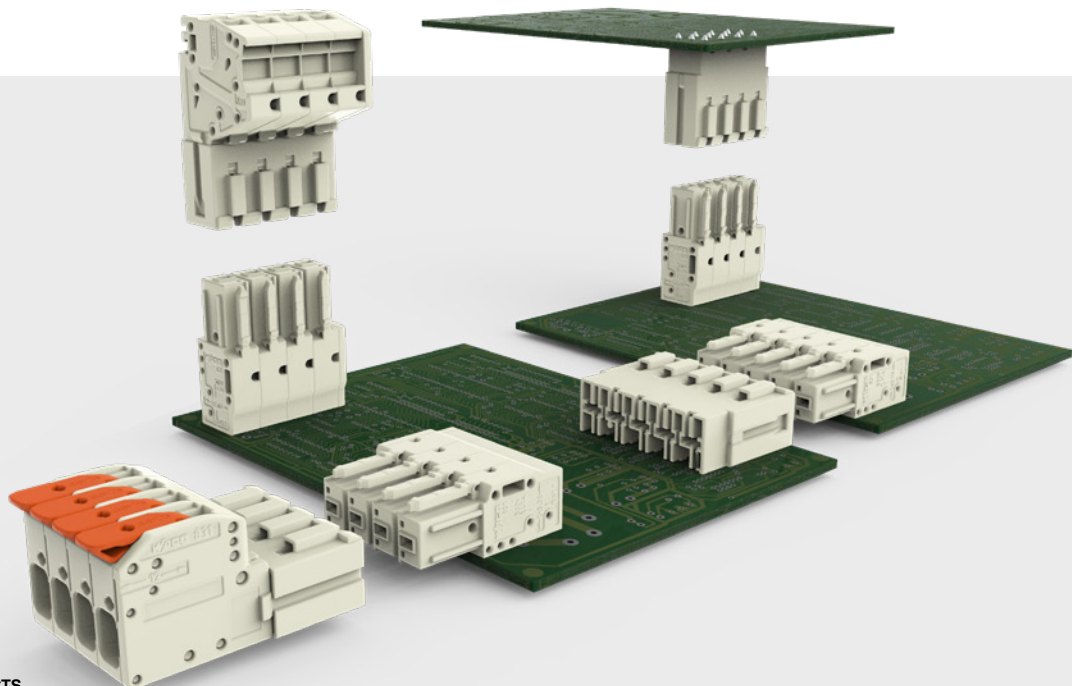
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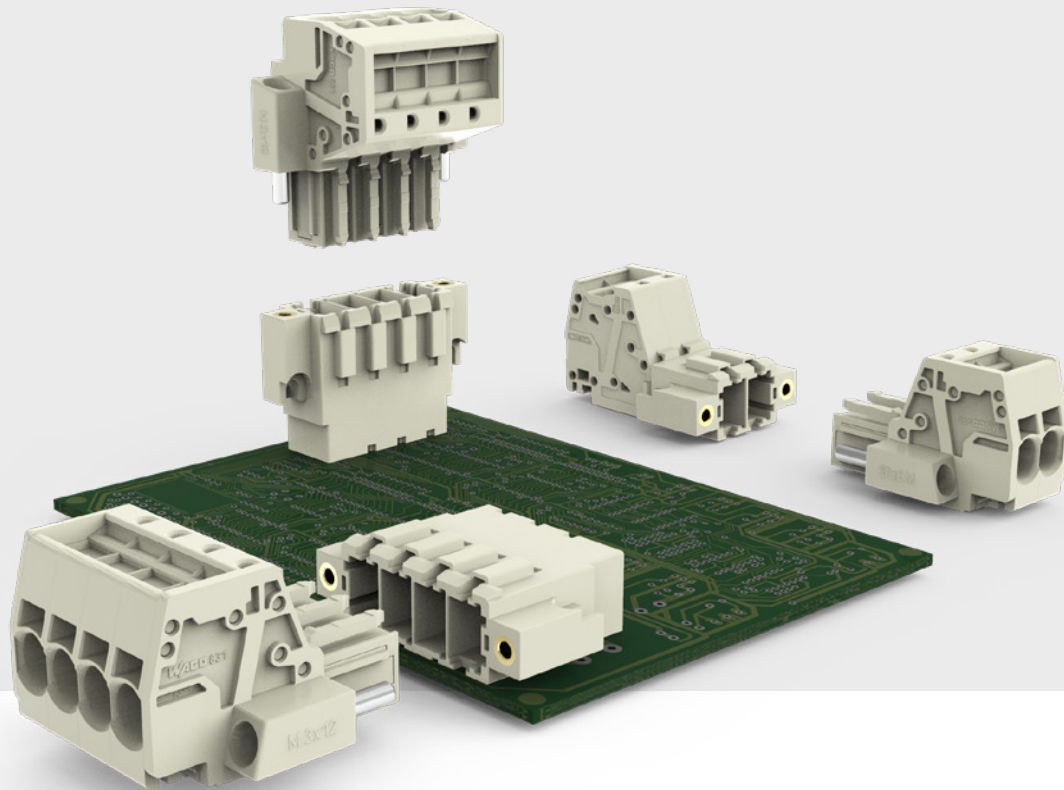
831-3502 to
831-3509
831-3522 to
831-3529



Availability:

November 2020





Screw Locking Mechanism Maximizes Protection

WAGO's *MCS MAXI 6* Pluggable Connection System offers a screw locking mechanism for high protection and extra stability.

Maximum protection against accidental disconnection and greater mechanical stability for power electronics connectivity: This is what WAGO's new screw locking system for *MCS MAXI 6* Female and Male Connectors with Push-in CAGE CLAMP® offers to users across all industries. With this new screw locking mechanism, WAGO's 1-conductor male connectors have an additional surface-mounting option, allowing flying leads to be easily secured to a panel. Additionally, the optional board screw connection provides extra stability to WAGO's angled THT male headers. As a result, users benefit from maximum security when connecting their power electronics.



Your Benefits:

- Maximum protection against accidental disconnection
- Screw locking mechanism for extra stability
- Easily secure flying leads to a panel



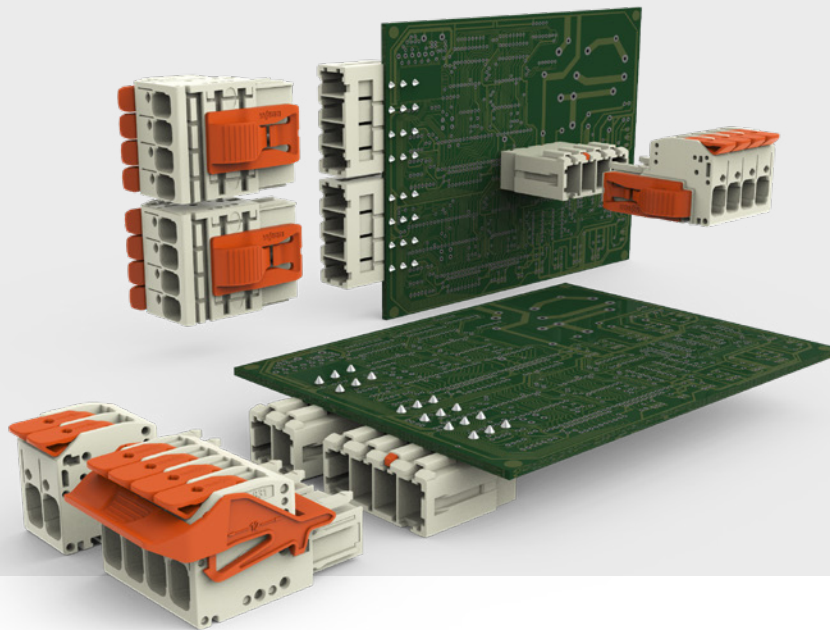
Item Number:

831-3102/107-000 to
831-2109/107-000
831-3202/109-000 to
831-3209/109-000
831-3602/108-000 to
831-3609/108-000
831-3622/108-000 to
831-3629/108-000



Availability:

November 2020



**INTUITIVE
LOCKING
SYSTEM**

Maximum Safety in Minimum Space

WAGO's MCS MAXI 6 PCB Connection System offers tremendous design flexibility with three new connection locking systems.

Maximum safety in minimal spaces and greater flexibility for device design – this is what the three MCS MAXI 6 locking systems offer, giving electronics developers the perfect locking option to protect their applications from unintentional connector disconnection. All three locking solutions are intuitive and can be operated with one hand. The side locking lever is optimized for applications where there is sufficient space next to the connector for actuation. The center locking lever is particularly well-suited to applications where connectors are placed directly next to each other on a device front because it locks compactly without additional grid width. In a tight spot? An additional center locking mechanism that is front-actuated above the conductor entry will secure connections in extremely space-restricted conditions. Frontline personnel worldwide benefit from readily understandable and quick operation thanks to an incredibly simple design and tool-free, automatic latching that provides both audible and haptic feedback when mated properly.



Your Benefits:

- **Maximum safety and flexibility for device design**
- **Three space-saving models for compact and robust designs**
- **Incredible simplicity thanks to clear, tool-free and intuitive snap-in locking with one hand**



Item Number:

831-1102/038-000 to
831-1109/038-000
831-1102/322-000 to
831-1109/332-000
831-1102/306-000 to
831-1106/306-000



Availability:

January 2021

Secure and Flexible Mounting

Secure flying leads using WAGO's new mounting adapters for the MCS MAXI 6 and 16 PCB Connection Systems with levers.

A flexible yet secure mount? It sounds contradictory, but it's not. WAGO's new mounting adapters for the MCS MAXI 6 and 16 PCB Connection Systems with levers prove that security and flexibility can co-exist. As industry-firsts, these mounting adapters allow flying leads with cross-sections up to 25 mm² to be easily secured to a DIN-35 rail or panel. WAGO's mounting adapters are intuitive and easy to use. Connecting the adapter to the connectors and installing or removing the entire connection from DIN-rail is extremely quick and easy. This isn't just an advantage when assembling the units at the factory, it also benefits users at the worksite because a pluggable connection allows, for example, modular function modules to be quickly connected in the field. This design reduces both wiring costs and the risk of errors. Both female and male connectors can be secured with the new mounting adapters for maximum flexibility. Several adapters can also be used, if required, for maximum stability. The mounting adapters are designed to prevent the connectors from widening, which means there is no risk of losing space. The mounting

adapters are available individually as accessories or pre-assembled at the factory. The adapters are a valuable addition to PCB connectors – whether it's for the power supply of stationary or mobile control units, e-charging points or easily combining modular function modules with push-in lever connectors.



Your Benefits:

- **Install a pluggable connection simply and securely**
- **Intuitive for quick and easy installation**
- **Available as single accessories or pre-assembled at the factory**



Item Number:

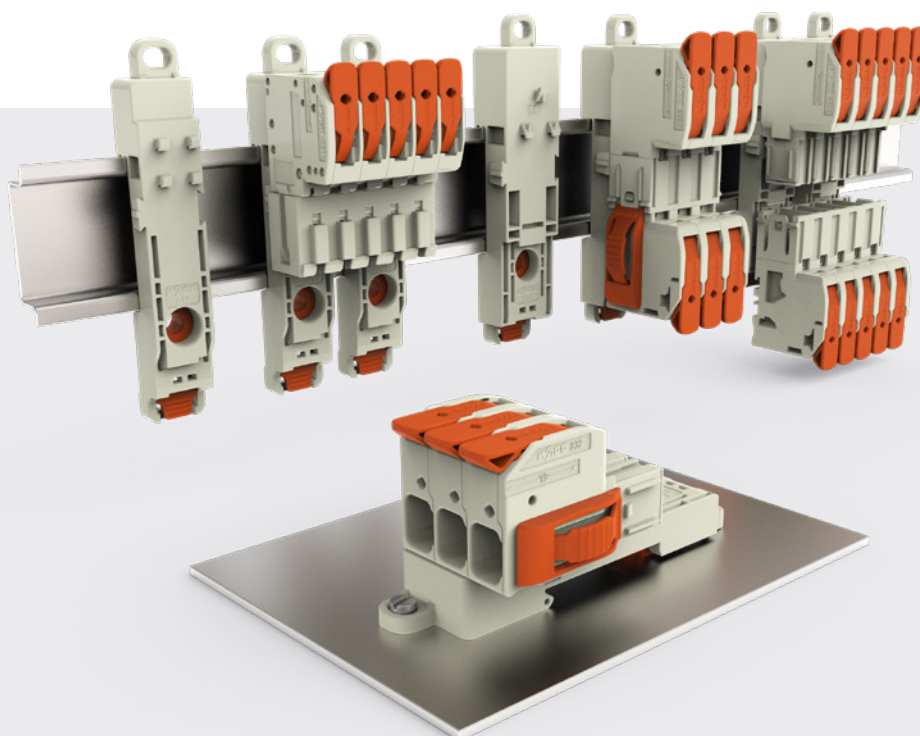
831-1032

832-1032



Availability:

December 2020



An Exciting Variety for PCB Design

Attractively sized, the PCB terminal block with push-button actuation offers a broad selection of models.

Incredible versatility and usability for PCB design – all in a compact size! These are the market-leading advantages of the new 2086 Series PCB Terminal Block with Push-in CAGE CLAMP® and a push-button. With this terminal block, push-in termination of solid and fine-stranded conductors with ferrules from 0.2 to 1.5 mm² is no problem. The conductor connection and mating direction can be either parallel or perpendicular to the PCB; the push-button moves in the direction of the cable connection. Available with double pin spacing, offset pin spacing and 3.5 or 5 mm pin spacing, the PCB terminal block creates a variety of possible applications, from control units in devices like heating or ventilation controllers, to compact device connection. This application scope is possible for the 2086 Series PCB Terminal Block because it's suitable for reflow soldering, and can be used for either automatic THR soldering or SMD assembly. Delivery in tape-and-reel

packaging allows full integration into the SMT process. Thus the 2086 Series PCB Terminal Block opens up many different design-in options for the developers of electronic assemblies.



Your Benefits:

- Ideal for compact device connection, panel feedthrough and tight spaces
- Push-in CAGE CLAMP® allows push-in termination of solid and fine-stranded conductors with ferrules from 0.2 to 1.5 mm²
- SMD and THR variants available



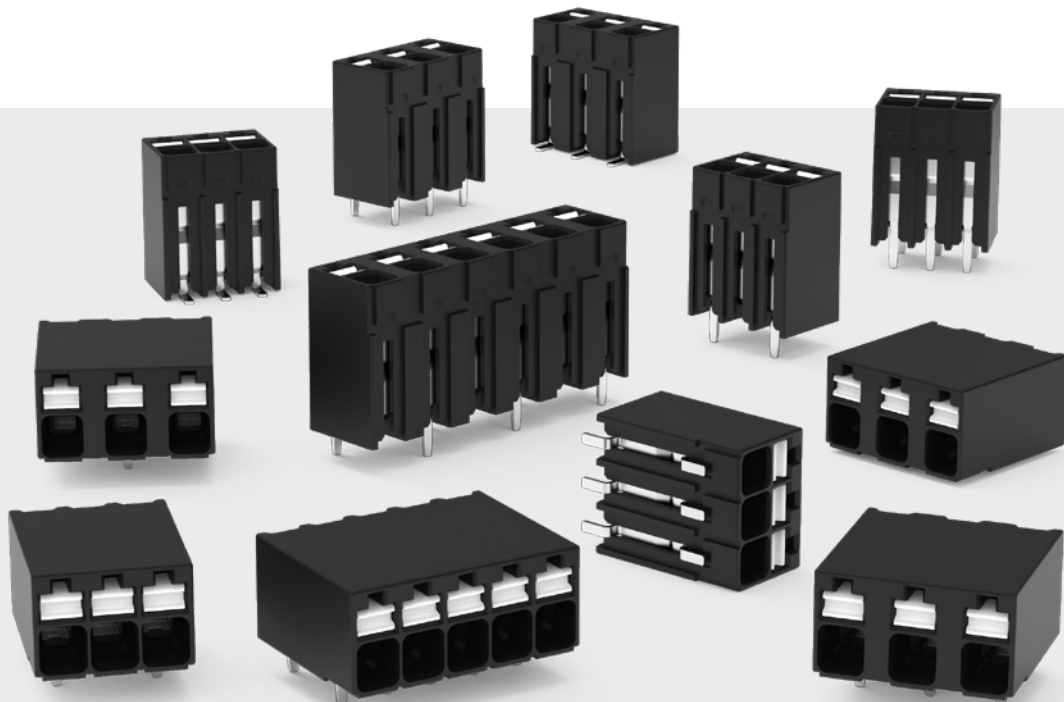
Item Number:

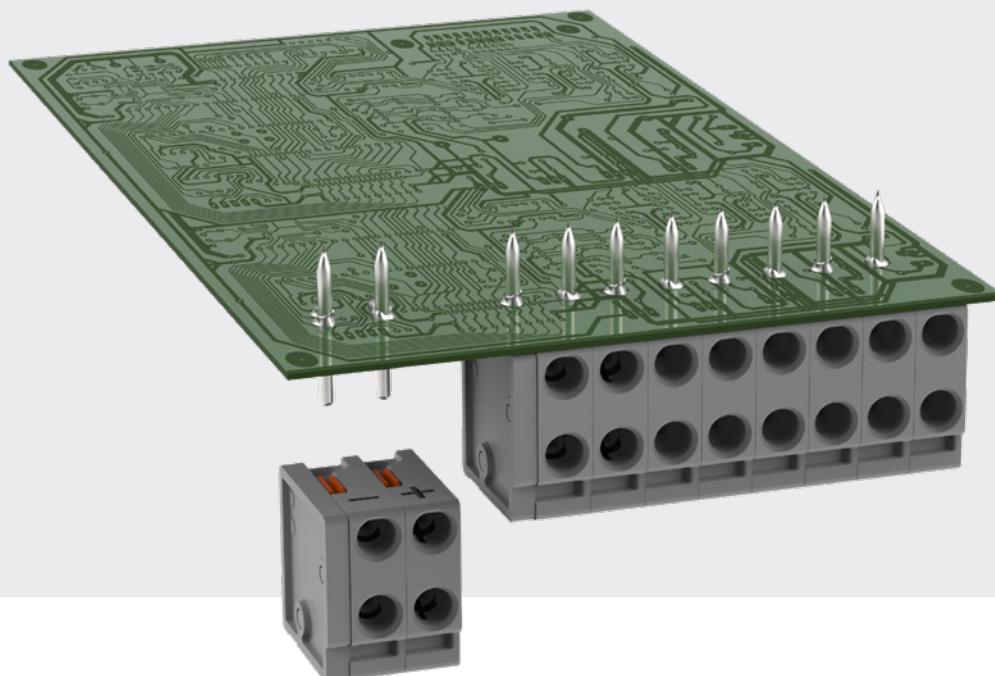
2086-11xx
2086-12xx
2086-31xx
2086-32xx



Availability:

December 2020





New Pluggable PCB Terminal Block with Many Advantages

WAGO's 252 Series PCB Terminal Block provides flexibility in building applications.

A compact 2-conductor PCB connector with pin connection from above joins WAGO's 252 Series PCB Terminal Blocks. It has been specially developed for the alarm systems used in buildings. The pin connection is performed conveniently from above. Solid conductors can be directly inserted via PUSH WIRE® connection technology and removed via push-buttons. An additional advantage of the 252 Series PCB Terminal Block is revealed during use: In ring lines, the 2-wire connection guarantees uninterrupted operation and enables quick and easy PCB replacement. A new feature for the entire 252 Series: With optional printing, the pluggable PCB terminal blocks can also be used in KNX applications.



Your Benefits:

- Suitable for KNX applications
- Uninterrupted use in ring lines
- Push-in termination of solid conductors



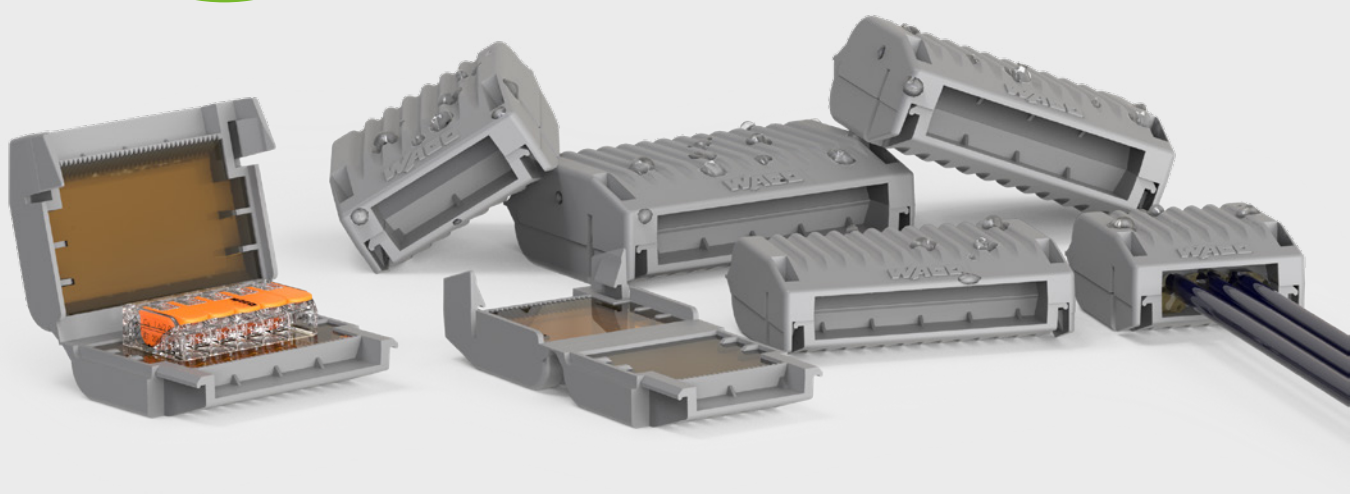
Item Number:

252-302 to
252-310



Availability:

In stock



**IPX8
PROTECTION**

Simply Protected from Moisture

WAGO's Gelbox provides IPX8 levels of protection for splicing connectors – all while offering superior ease of use and reliability.

Electrical installations in environments that range from merely damp to soaking wet can now be made waterproof – in a way that's faster and easier than expected. Commission and use it immediately at the site of your electrical installation, access it again quickly, store it indefinitely – the WAGO Gelbox offers unbeatable connection protection anywhere electrical installations are exposed to moisture and humidity, such as outdoor environments. The WAGO Gelbox utilizes high-quality silicone-free gel from Cellpack, making this enclosure ready to use in any branch of industry. The WAGO Gelbox is available in six sizes and is compatible with both WAGO's 2273 Series COMPACT PUSH WIRE®

Connector for Junction Boxes and its 221 Series COMPACT Splicing Connectors.



Your Benefits:

- **Fast application – ready for direct, on-site deployment**
- **Unlimited shelf life**
- **Ease of use**
- **Exceptional versatility – made of silicone-free gel for use in all industries**



Item Number:

207-133x*

207-143x**



Availability:

*from stock

**January 2021

Conquering the Chaos of Many Wires

WAGO's Junction Box for the 221 Series allows you to clearly organize and quickly connect up to 60 conductors.



Your Benefits:

- Simple, quick and safe connection of up to 60 conductors
- A clearly structured arrangement that's secured on one level
- Highly visible labeling for each individual connection point



Item Number:

207-4301 Series

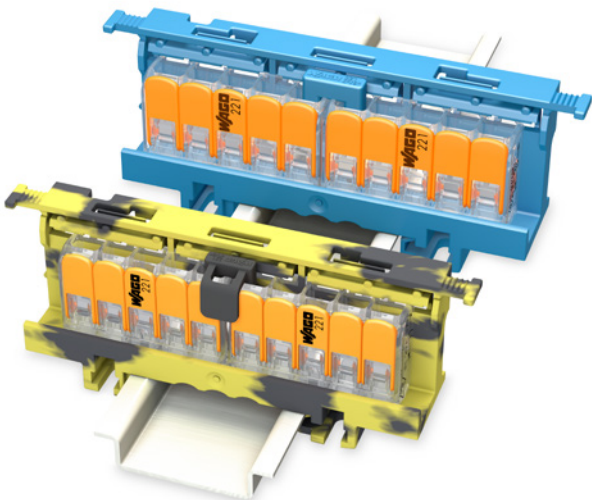


Availability:

In stock

One Potential, Even More Clamping Points

WAGO's 221 Series Adjacent Jumper increases the number of clamping points on one potential.



Your Benefits:

- Create potential distributions with up to eight connection points in the DIN-rail adapter
- Optional lock guards against accidentally opening a connection (locking function)
- Four variants: with and without locking of the contact point lever, each available in blue or gray
- Suitable for both sizes of the 221 Series: 4 mm² and 6 mm²
- Also available as complete sets with colored mounting adapters



Item Number:

221-941

221-942

221-941/0000-0006

221-942/0000-0006



Availability:

December 2020

Increased Touch Protection for Easily Accessible Areas

WAGO's line of *WINSTA*® MINI Installation Connectors offers IP40 protection.

Small, compact and now touch-proof: All connectors in WAGO's *WINSTA*® MINI Pluggable Connection System are now available with IP40 protection. WAGO's compact installation connectors, which impress with their small size and tool-free actuation, are ready for duty in highly accessible areas, including shops, trade show construction or even furniture making. Increasing touch protection to IP40 shields the user from contact with the products' live parts – even if tools with small tips (diameter greater than 1 mm) are used. Increased safety makes the *WINSTA*® MINI Connectors perfect for installations in which electrical components are readily accessible to all, including laypeople. Deployments include installations in the event technology sector, retail and shop operations or laboratory equipment. Applications in the tightest areas, such as luminaires installed in furniture or sockets and charging stations integrated in furniture, will also benefit from the newly touch-proof connectors. The *WINSTA*® MINI family, designed for a nominal current of 16 A, makes electrical installations in con-

finied spaces pluggable, addressing miniaturization's growing popularity. In addition to various connectors, the *WINSTA*® MINI family also includes both distribution connectors and pre-assembled cables. The increased protection against accidental contact is achieved with modified strain relief housings. The change optimally complements the portfolio for applications in easily accessible areas; it's also possible to make 3-pole MIDI connectors touch-safe by using the IP2XD strain relief housing.



Item Number:
890/891 Series

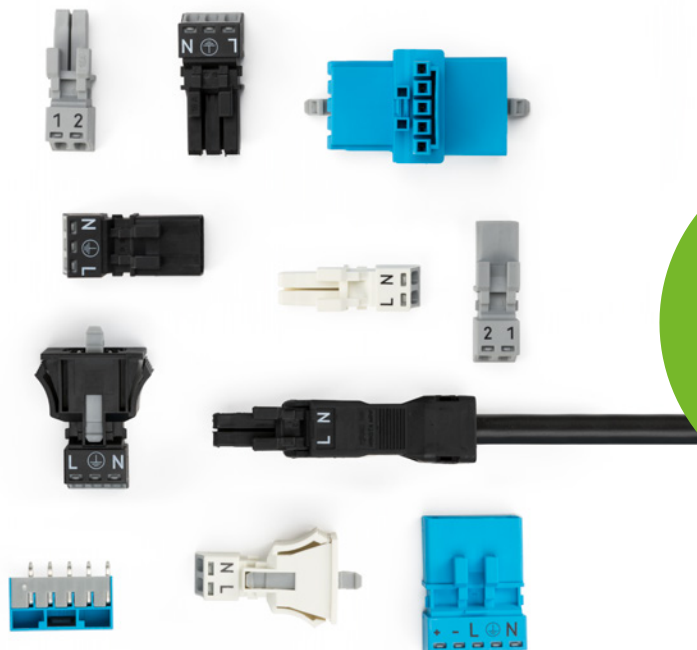


Availability:
In stock



Your Benefits:

- IP40 protection for all connectors of the *WINSTA*® MINI family
- Compact design for conductors with a cross-section up to 1.5 mm²
- Easy, tool-free operation
- Wide range of coding options



IP40
For easily
accessible
areas!



Measure Voltage in Virtually Any Application Without Additional Adapters

WAGO strengthens its line of tools with standard-compliant test probes and measurement technology.

If electricians wanted to measure the voltage of terminal blocks or installation connectors with a multimeter, they previously had to use suitable adapters to reach the often narrow test openings with measurement instruments. WAGO now offers them the right solution: Optimized test probes (206-912) with a 2 mm diameter that enable direct and standard-compliant measurements in CAT III and CAT IV applications – without an additional adapter. The impressively small and removable test probes measure currents up to 10 A. With the 1.5 m long test leads, which are also new, they can be easily connected to the corresponding measurement instruments. And each new tool continues WAGO's legacy of quality and innovation: Both the TRMS multimeter and TRMS clamp meter compel with their high accuracy – regardless of the signal type and form. They are also extremely compact, allowing elec-

tricians to use them virtually anywhere. The digital multimeter, which also detects voltages contact-free, reliably combines all necessary measurement functions into one device, making it one of the most important measurement tools in electrical engineering. In combination with the WAGO test probes and test leads, the multimeter is ready for any measurement task.



Your Benefits:

- **Standard-compliant measuring and testing without an adapter (per DIN (EN) 61010-031 (VDE 0411, Part 031))**
- **Suitable for CAT III and CAT IV applications**
- **TRMS quality tools**



Item Number:

206-912



Availability:

End of October 2020

WAGO Kontakttechnik GmbH & Co. KG

Postfach 2880 · D-32385 Minden
Hansastraße 27 · D-32423 Minden

info@wago.com

www.wago.com

Headquarters	+49 (0)571/887 - 0
Sales	+49 (0)571/887 - 44 222
Orders	+49 (0)571/887 - 44 333
Fax:	+49 (0)571/887 - 844 169

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