



**NEW  
PRODUCTS  
ISSUE 2024/1**

# START THE FUTURE WITH EFFICIENT SOLUTIONS



[www.wago.com/global/c/product](http://www.wago.com/global/c/product)

**Dear Readers,**

That the demands on buildings are increasing is no longer a secret. Buildings must become more efficient, meet sustainability requirements, and operations are becoming increasingly automated. In this sector, which is constantly evolving, we lead the way and offer you integrated solutions for efficiently managing your building.

How do we do that? A prime example is our WAGO Building Cloud Services as part of the WAGO Building Ecosystem. The four new cloud-based services not only provide building, energy and alarm management, as well as reporting functions, they also support you in meeting the requirements of the German Building Energy Act (GEG) and the EU Building Directive (EPBD).

An efficient building also includes shading. It should be as simple as possible and automated to adjust to weather conditions. And this simplicity starts with the shading parameterization. The initial parameterization of the new WAGO Sunblind Box (8DI/DO) can be implemented in the WAGO App – PC hardware isn't needed, a mobile phone will do. It can be combined with control devices like the WAGO Compact Controller 100.

Now, with the powerful PFC300, you can program, control and visualize very complex and resource-intensive applications – be it in buildings or industrial environments. With its open Linux operating system and the option of programming with CODESYS V3.5, it offers you every freedom.

In addition to these highlights, discover additional innovations from control cabinet manufacturing, power engineering, mechanical engineering and electrical installations.

We hope you enjoy this informative read!

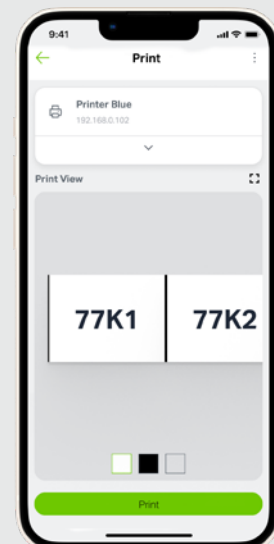
**Best regards,  
Martin Hardenfels  
Head of Business Development Building**



# 28

## FLEXIBLE MARKING – WHEREVER YOU WANT

WAGO's Thermal Transfer Smart Printer and a marking app now offer a new system for the mobile marking of control cabinet components.



# 05



## EFFICIENT BUILDING MANAGEMENT WITH CLOUD-BASED SERVICES

WAGO Building Cloud Services cover a broad range of management and reporting functions for efficient building operation. They fit into the WAGO Building Ecosystem – the system for integrated building management.

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# BUILDING TECHNOLOGY

# Efficient Building Management with WAGO Building Cloud Services

Four new cloud-based services optimize building operation and efficiency.

WAGO Building Cloud Services forms a new pillar in the WAGO Building Ecosystem, the integrated system landscape for WAGO buildings. These software applications cover various management and reporting functions that enable efficient, trouble-free building operation and support operators in meeting the requirements of the German Building Energy Act (GEG) and the EU Building Directive (EPBD). The four cloud-based applications support building, energy and alarm management, as well as the generation of ESG reports.

## Powerful Services

WAGO's cloud-based software solutions allow reliable access to all data at any time and place. Targeted monitoring and control of the building automation system is centrally secured from a single point in the cloud. Mobile devices can also access clearly assigned system parts, which simplifies operation and maintenance for service teams. The services record the status of building automation systems and report faults in real-time. Users can also create custom dashboards to visualize their data clearly and quickly. Each service also allows detailed access and rights management.

## Open and Scalable

Retrofitting is also possible at any time: Thanks to support for open and standardized protocols, such as BACnet, Modbus® or OPC-UA, WAGO Building Cloud Services are compatible with existing building automation systems. Each cloud service functions independently or in the system with additional services. Since WAGO Building Cloud Services are components of the modular and scalable WAGO Building Ecosystem, additional building components can be added to the building's components individually.



## Your Benefits:

- **Optimal support for the legal requirements of energy management and ESG reporting (CSRD and ISO 52120) and compliance with energy efficiency class A**
- **Individually expandable and combinable as part of the modular WAGO Building Ecosystem**
- **No additional software installation required**



### WAGO Building Environmental Reporting

#### Armed for the ESG Requirement

The importance of ESG reporting in the corporate world is growing steadily, even for building operators. WAGO Building Environmental Reporting is one of the core components of WAGO Building Cloud Services, which supports building operators, facility managers and energy managers in making their ecological footprint transparent. It facilitates the preparation of ESG reports

according to the EU CSRD directive. The cloud application combines all relevant building data from digital meters, manual readings or other systems, visualizes them and generates automated reports with just a few clicks. This provides you with the best possible preparation for future reporting needs while constantly looking for potential optimizations.

### WAGO Building Energy Management

#### Optimizations Need Transparency

WAGO Building Energy Management provides transparency and clarity in building energy data and offers potential for optimization. So, freely configurable dashboards and widgets are available to visualize

energy flows and losses and calculate consumption. In addition, it supports the requirements of DIN EN ISO 50001, making it eligible for funding in Germany per BAFA.





## WAGO Building Alarming and Ticketing

### Easy Alarm Management

With WAGO Alarm Management, which includes an integrated ticket system, even complex alarm scenarios can be managed as easily as scheduling. Functions include support for alarm chains with a visual representation of the cover, root cause anal-

ysis, recording of the failure duration and documentation of measures. Freely configurable dashboards provide an overview of systems, individual buildings and portfolios. The alarms can be flexibly sent via SMS, email or push message in a mobile app.

## WAGO Building Management

### Seamless Building Operation

WAGO Building Management forms a higher-level, cloud-based management and operating equipment. It makes it possible to monitor specified building technology systems and intervene as needed – at

any time and from anywhere. On system images, links to integrated document management can be created, allowing direct access to circuit and schematic diagrams, for example.



#### Software

##### Item Numbers:

2761-1010  
(WAGO Building Management)  
2761-1020  
(WAGO Building Alarming and Ticketing)  
2761-1030 (WAGO Building Energy Management)  
2761-1050  
(WAGO Building Environmental Reporting)



Available



## Easily Commissioning Shading Control

The new WAGO Sunblind Box (8DI/DO) is the first product in the WAGO Building Ecosystem to be parameterized via the WAGO App.

In buildings, efficient shading control on the facade is crucial. It is particularly beneficial for comfort and energy efficiency in large buildings, which often have several sun protection curtains. The new WAGO Sunblind Box (8DI/DO) now helps easily operate building shading and, combined with control devices such as the WAGO Compact Controller 100, enables decentralized control of curtains with fast initial parameterization in the WAGO App. Specific PC hardware isn't needed; simply use a mobile phone.

### Easy Commissioning Thanks to Innovative Technology

The WAGO Sunblind Box offers effortless commissioning. The user enters the IP address of the device to be connected once in the WAGO App and transfers the data to the WAGO Sunblind Box by placing their mobile phone on the box. Thanks to NFC technology, the box can also be parameterized without power. This innovative approach and addi-

tional predefined parameters make setting up and configuring the shading controller easier than ever.

### Convenient Functions and Versatile Installation Options

With ETHERNET-based connection (100BASE-T) via an RJ-45 plug and control via Modbus TCP, up to four shading motors can be controlled via the four output channels (8 outputs). The box has a switch function to wire multiple boxes in a row. Equipped with WAGO's 4-pole *WINSTA*® MINI (230 V) sockets and having a height of just 30 mm, it fits in floor boxes or under suspended ceilings, saving space. This allows installation near the shading. The eight inputs can be freely programmed and have no logical connection to the output channels.

The WAGO Sunblind Box complements the WAGO Building Ecosystem as a room automation product.





**Your Benefits:**

- The most important parameters for initial commissioning have already been stored in the WAGO App
- Straightforward application creation: an IEC module allows integration into WAGO Solution Builder
- Easy wiring thanks to *WINSTA*<sup>®</sup> and switch topology in the WAGO Sunblind Box



Item Number:  
0899-0632/  
0501-0000



Availability  
Q2/2024



# Large Update for WAGO Solution Builder

## Even More Efficient and Easier: Innovations for Engineering in Building Projects

WAGO Solution Builder is an integrated and efficient software solution for installers and operators of building automation solutions. WAGO Solution Builder Release V2.0 further simplifies the engineering of building projects by expanding the user-friendly wizard function, among other things. This function ensures that not only programming experts, but also users without extensive programming knowledge can use the engineering tool effectively. This simplifies joint commissioning, maintenance, operation and service, especially for teams with mixed programming skills.

### **Automating Engineering with the Wizard: Here's How It Works**

WAGO Solution Builder V2.0 offers both the option of generating programs with CODESYS and also the option of generating programs to meet customer requirements with the wizard. The wizard is a front end that is filled with intelligent functions and can create completely functional programs, such as a functional heating circuit controller.

The wizard now handles complex programming tasks in the background, enables individual adjustments in the user interface and automates program creation. Using simple question/answer screens, the wizard asks what the user wants and uses this information to write complete, functional program codes.

The backend can be used with functions provided by WAGO or to create your own wizards. This option is especially interesting for large companies that employ both programmers and those performing the commissioning: Programmers create their own wizards with their ideas, which can then be used as complex, well-prepared programming during commissioning.



## Other Innovations:

### Greater Safety:

The update now also supports distributed server installations with secure SSL communication.

### Certification Handling with BACnet/SC:

Certification handling is now automated in WAGO Solution Builder V2.0. Certificate generation and distribution is automatically performed on all WAGO BACnet Controllers with just a few clicks. This removes the complexity for the user.

### Standard Applications Now Available in WAGO Solution Builder 2.0:

With this update, the WAGO Application *flex-ROOM*® can now be the first application solution to be commissioned in WAGO Solution Builder. Therefore, all functions that WAGO Solution Builder supports can also be used in the application.

### Project-Related Task Lists:

The user can create comprehensive to-do lists to track the commissioning progress, as well as systematize status reports and generate them in seconds. This promotes collaboration and ensures efficient project execution.

As an engineering software for building automation, WAGO Solution Builder is part of the WAGO Building Ecosystem.



### Your Benefits:

- Access for users without specific programming knowledge thanks to an intelligent wizard function
- Increased engineering efficiency through automation of programming tasks
- Certificate update by the operator with the software's operator version



### Software

#### Item Numbers:

2759-132/

1119-101

(Single user license)

2759-132/

1119-3012

(Site license)

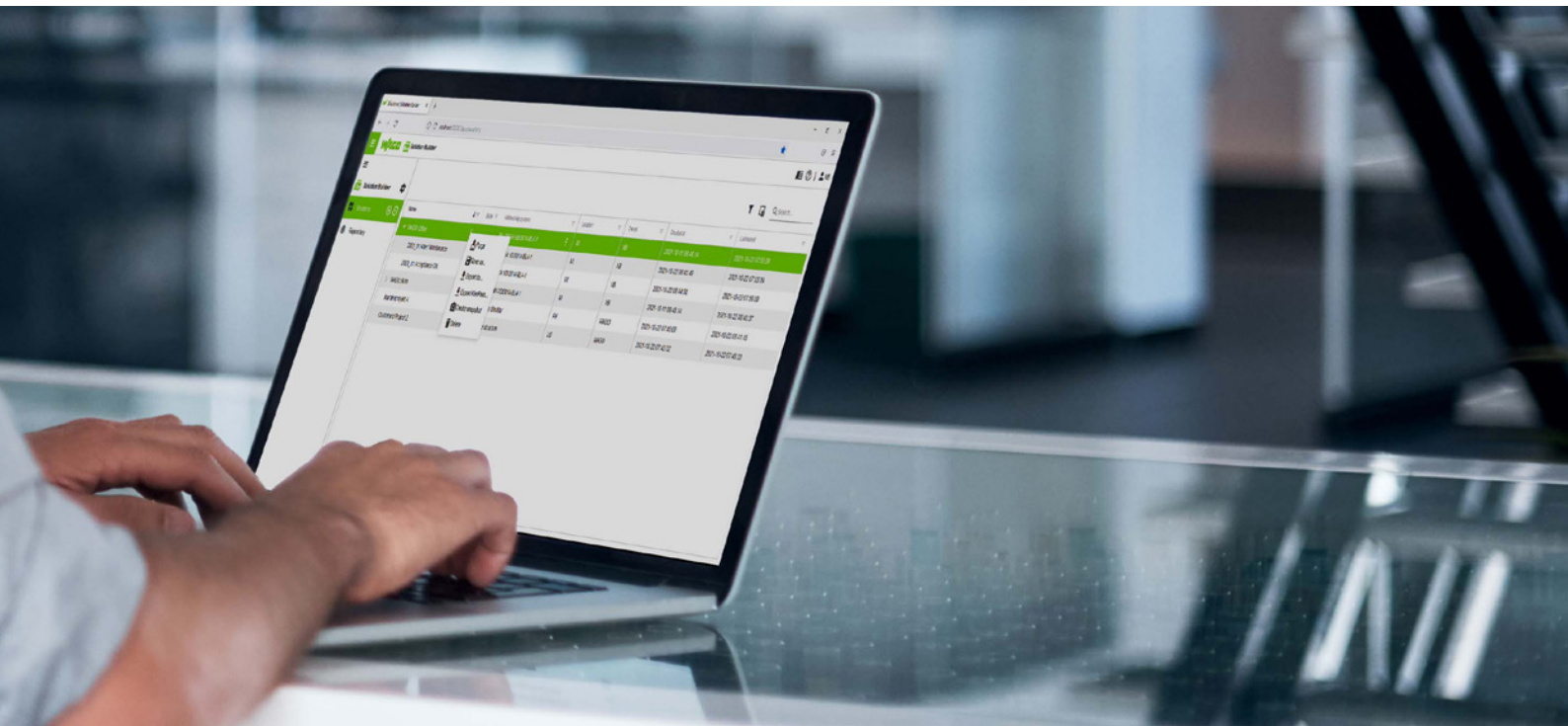
2759-132/

1119-6012

(Server license)



Available





# Room Automation Based on the Motto "Configuring – Not Programming"

## Expansion of the *flexROOM*® Family with WAGO Application *flexROOM*® Area

WAGO complements its *flexROOM*® concept with the new WAGO Application *flexROOM*® Area application solution, thus closing the portfolio gap for rooms and areas that are not structured according to the *flexROOM*® segment principle – such as corridors, restrooms, employee kitchens, copier rooms, open-plan offices, etc.

The new WAGO Application *flexROOM*® Area application solution offers expanded functionalities and a higher volume structure. Up to 32 rooms/areas can be configured, and extensive pre-programmed functions for temperature control, lighting and shading are available.

In addition, there are numerous interfaces for connecting sensors and actuators, as well as different communication protocols for connecting to higher-level systems. Commissioning is performed through a configuration interface, following the design principle of "configuring – not programming." This allows quick, easy, flexible adaptation of the automation to room changes without any programming.

WAGO Application *flexROOM*® Area is also an energy-efficient solution per ISO 52120-1, which is a transfer from DIN EN 15232 and part of the Energy Performance of Buildings Directive (EPBD). This supports achieving energy efficiency class A and certification as a sustainable green building per DGNB or LEED. WAGO Application *flexROOM*® Area is another building block in the WAGO Building Ecosystem and enables a simple, efficient and flexible overall solution for modern room automation.



Software  
Item Number:  
2759-2110/  
26x-1000



Available



### Your Benefits:

- Flexible room automation for non-segment-oriented rooms and areas
- Comprehensive pre-programmed functions for lighting, shading and indoor climate control
- Optimizing energy consumption

# The Right Light, at the Right Time, in the Right Intensity

## WAGO Lighting Management – Now with BACnet® Interface in Version 2.3

WAGO Lighting Management enables particularly efficient lighting control in production facilities, warehouses, shopping centers, train stations and other non-residential buildings. The lighting adapts to the needs of the specific environment.

To connect WAGO Lighting Management to higher-level management systems, such as the building control station, Version 2.3 now includes a BACnet® interface. Selected data points are mapped to BACnet® objects. These can include status and error messages, as well as switching signals and energy consumption. With WAGO Lighting Management, all relevant system information is available around the clock – worldwide.



### Your Benefits:

- **Flexible and scalable lighting control applications**
- **Connection to higher-level systems based on the non-proprietary BACnet communication protocol, which is accepted worldwide per EN ISO 16484-5**
- **Status and error messages, switching signals and energy consumption data can be visualized as BACnet® objects**



### Software

#### Item Numbers:

2759-0204/0261-1000  
(Standard License)  
2759-0205/0261-1000  
(S License)  
2759-2101/  
0271-1000  
(Visualization S)  
2759-2102/0271-1000  
(Visualization M)  
2759-2103/271-1000  
(Visualization L)



Available




# A Flexible Solution for Distributed Properties

## Building Automation with the WAGO Application Building Control – Another Building Block in the WAGO Building Ecosystem


Particularly for distributed properties such as supermarkets, bakeries, filling stations or fast food chains, there is a recurring basic functionality in building automation. At the same time, additional specialized functions are often required, depending on the size and characteristics of each store. With WAGO Application Building Control, WAGO offers the perfect combination of functionality, flexibility and simplicity to create and combine standard functions for room temperature control, lighting and shading, as well as other freely definable links.

Version 1.2 provides the WAGO Application Building Control with additional interfaces for integrating additional sub-bus systems such as KNX® and MP-Bus. It also now supports the WAGO Compact Controller 100. Programming skills are not required. The software can be easily configured and commissioned. This is possible with ready-made functional units; however, the software can readily adapt to many different needs. It also monitors the building status. If values exceed or fall below thresholds, the application reports this to the user and visualizes it on a dashboard.

System integrators, electrical installers or facility managers can optionally connect the software to the WAGO Building Cloud Services. This gives them access to all building data worldwide. The WAGO Application Building Control is available for the PFC200, 2nd generation (item number: 750-8212) and the WAGO Compact Controller 100 (item number: 751-9301).



**Software**  
**Item Number:**  
 2759-2120/0261-1000

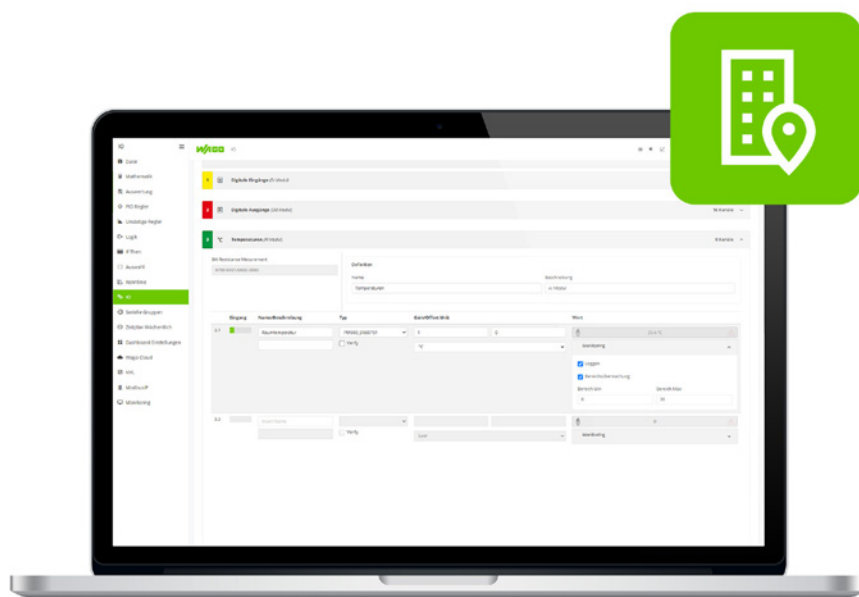


**Available**



### Your Benefits:

- **Multiple interfaces for connecting different sensors and devices**
- **High functional safety thanks to pre-programmed and tested functional units**
- **Universal and flexible creation of any control and regulation functions**





# ELECTRICAL INSTALLATION

# WAGO Green Range 221 Series Supports More Sustainable Construction

## Reduced Consumption of New Raw Materials and a Lowered Environmental Impact due to Partially Recycled and Bio-Circular Plastics

WAGO's Green Range Splicing Connector with levers is the connector for anyone wanting more sustainable wiring. The reason: It consists of origin-certified, bio-circular and recycled plastics. As a result, the WAGO Green Range 221 Series consumes fewer fossil resources and keeps plastics in circulation.

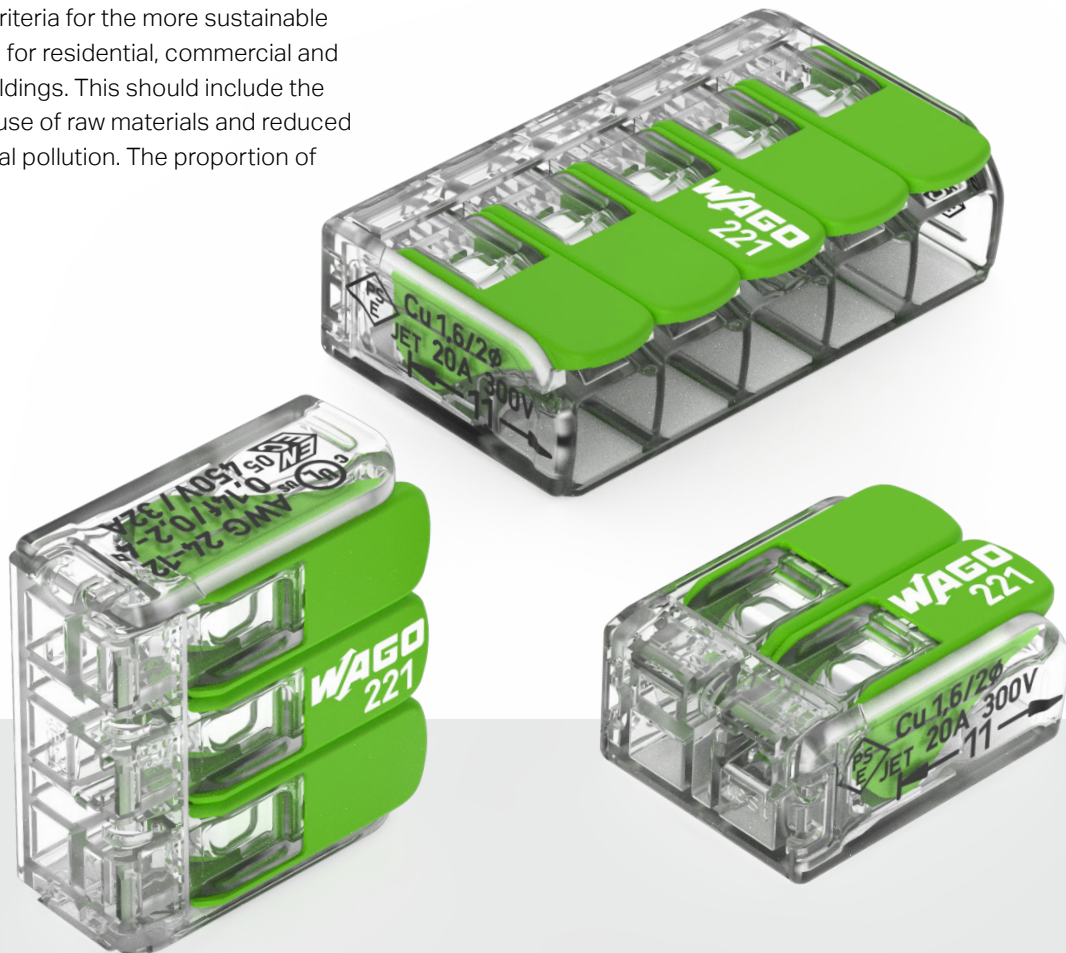
### Mandatory Ecological Criteria for Construction Projects

This is advantageous for construction projects, for example. There have long been requirements to focus on sustainability when selecting materials. This can also include the electrical products used. One example is the ecological criteria catalog for the city of Munich. It outlines mandatory criteria for the more sustainable construction for residential, commercial and industrial buildings. This should include the economical use of raw materials and reduced environmental pollution. The proportion of

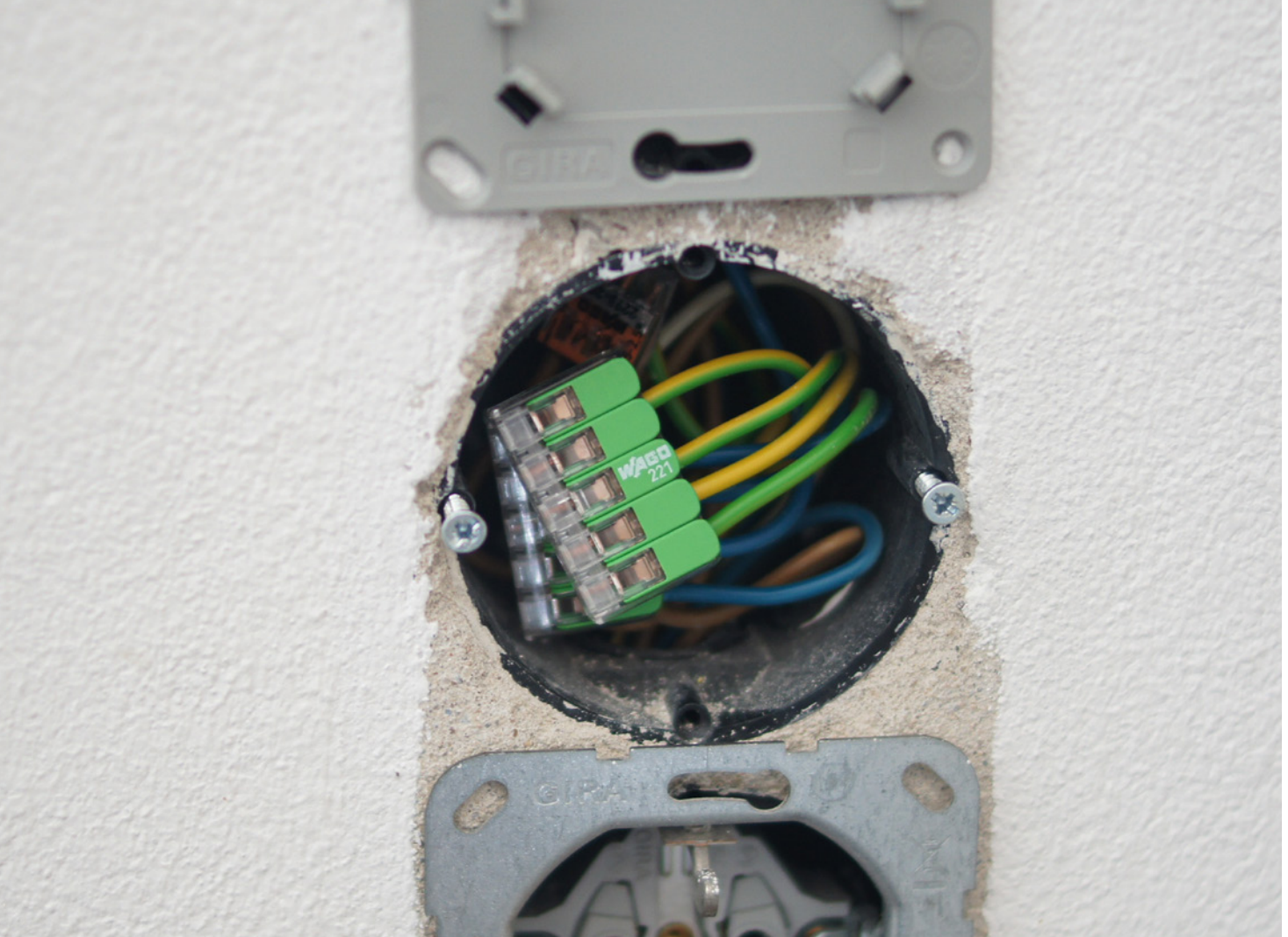
recycled and bio-circular materials used in the WAGO Green Range 221 Series reduces the need for new raw materials and, thus, the environmental burden.

### Greater Sustainability for Lower Interest Rates

Even if no fixed criteria exist for more sustainable construction, using resource-saving electrical interconnection products can pay off. Some banks offer discounted interest rates for projects with greater sustainability. The "UmweltRating Construction Financing" from UmweltBank rates construction projects according to ecological criteria, among other things.







If the project meets the resource-conserving, reused and recycled building materials requirements, the interest rate drops. In addition, the German government promotes sustainability aspects through its own sustainability class and awards the "Sustainable Building Quality Seal."

With the Green Range 221 Series, WAGO is already adapting to increasing demands for sustainability. And this follows the credo: Connect today to tomorrow!



#### Your Benefits:

- **Plastics made in part from post-consumer recycled material (e.g., recycled PET bottles) and bio-based industrial and household waste (bio-circular)**
- **Reduced consumption of fossil resources**
- **Same quality and certifications as the familiar 221 Series Splicing Connector**



#### Item Numbers:

221-422

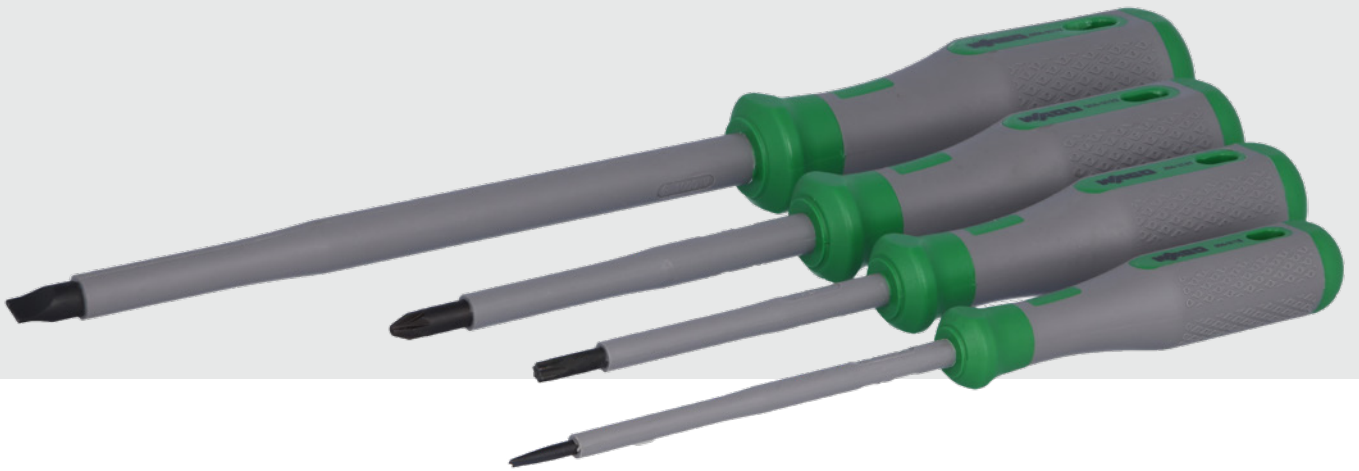
221-423

221-425



Available





# More Efficient Wiring Workflows through Professional Tools

## WAGO VDE Screwdriver and WAGO Tool Bag

The everyday work of electrical installers is becoming increasingly digitized. However, a large portion of it is still manual, for which stripping, crimping and tools for screwing are required. For this reason, the WAGO tool portfolio has been expanded to include high-quality and functional WAGO VDE Screwdrivers, which provide superior ergonomics and optimal torquing forces. In addition, there is now a WAGO Tool Bag – a practical storage solution that also eases the daily work of the electrical installer.

### **WAGO Screwdriver with VDE Certification**

The screwdrivers are available in 26 different versions and have VDE certification, meaning they are tested up to 1000 V per IEC 60900. In addition to practical anti-slip protection, the screwdrivers also feature head marking, making the design easier for users to recognize, along with a two-component rubberized handle for ergonomic and safe use.

The VDE screwdrivers are available in the following variants:

- Slot
- Phillips (PH and PZ)
- Torx®
- Cross and slot combination (PH and PZ)



### **Your Benefits:**

- VDE-tested safety
- Ergonomic design
- Optimal torquing force

### **WAGO Tool Bag: Everything Perfectly Stowed and Ready to Go!**

Whether for building installation, mechanical engineering or maintenance – tools are always at hand with the practical WAGO Tool Bag. Since the bag can be easily connected to an L-Boxx Micro or L-Boxx Mini by clicking on it, electrical installers, service technicians and maintenance specialists can also have suitable splicing connectors or ferrules for connecting conductors.

Thanks to internal and external compartments, everything you need, like pliers, screwdrivers, stripping tools and a tablet, can be conveniently stored in your bag. In addition, the bag comes with a practical shoulder strap and can be slipped on quickly. It also has a stable plastic base that provides a secure footing when parked.

The WAGO Tool Bag is a practical storage solution that makes everyday work significantly easier.



#### **Your Benefits:**

- **Maximum mobility and flexibility – always at your fingertips with the tools you need**
- **Practical connection with L-Boxx Micro or Mini – suitable splicing connectors and ferrules are always there**
- **Convenient storage thanks to internal and external compartments**



#### **Item Numbers:**

206-21xx  
(Screwdriver)  
206-3000  
(Tool Bag)



**Available**

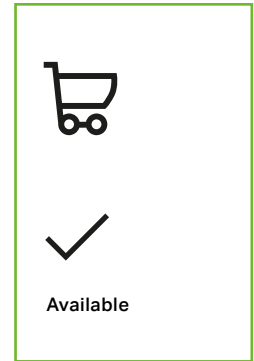


# Industry-Neutral and Manufacturer-Independent Data Standard

## WAGO Provides Asset Administration Shells (AAS)

The "Asset Administration Shell" (AAS) represents the backbone of Industry 4.0 and is especially important for the automation of all processes in industry. This deals with the digital mapping of assets, devices and components, up to complete machines and systems and serves as a type of standardized data container for all assets, devices, components, machines and system data. The unique thing about this is that the AAS is an industry-neutral, manufacturer-independent standard that stores data in a standardized form. Mechanical engineers and system designers can thus obtain data from different manufacturers in a uniform format. The standardized AAS significantly simplifies data handling and updating, enables continuous cross-manufacturer networking of components and ultimately reduces engineering, assembly and maintenance costs. WAGO now relies on this standard. The administration shell, in which customers in the

future will find all the information on a product in a downloadable file, is already available in the current version 3 for more than 18,000 products and can be easily downloaded from the WAGO website on the respective product detail page.



### Your Benefits:

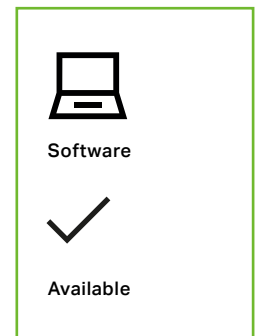
- All data in one place (on the product detail pages)
- Industry-neutral and manufacturer-independent standard
- Simplified data import and analysis



# Find, Configure, Manage

## All Product Finders and Configurators for WAGO Components at a Glance

With configurators and product finders, selecting, commissioning and configuring WAGO products is easy and convenient. They are available for control cabinet components, WAGO Gelboxes, installation connectors and accessories, as well as PCB connection technology. WAGO also offers practical configurators for interface electronics and automation technology products. You can find an overview of all digital services online.



### Find and Select

- Plan distribution boards in buildings
- Find accessories for installation connectors (NEW)
- Select the right PCB connector
- Find the right marking media (NEW)
- Select the right Gelbox for installation connectors (NEW)
- Find out power supplies and electronic circuit breakers



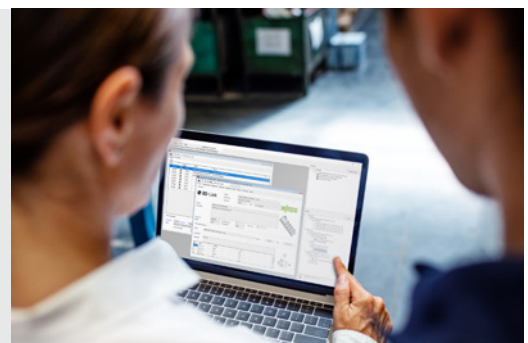
### Configure and Customize

- Digital planning of DIN-rails free of charge
- Configure PCB terminal blocks and connectors
- Configure energy meters intuitively
- Simulation functions for the WAGO Power Supply Pro 2 and WAGO Signal Conditioners



### Commission and Parameterize

- Easily commission a DALI network
- Parameterize SMI drives online and offline
- Conveniently manage BACnet® controllers
- Intelligently set up IO-Link machines and systems
- Easy commissioning of WAGO telecontrol technology via intuitive configurator



# THE WAGO APP

Now Available: The Everyday Digital Helper for Electrical Professionals

What kind of WAGO terminal block is this again? What current and voltage levels is it approved for? What conductor cross-section do I need here again? And where can I currently get the product from?

For questions about electrical installations and WAGO products, the WAGO App is your practical everyday helper when you're on the go. In addition to detailed information on approximately 30,000 WAGO products, a rapid dealer search function and a tools area for electrical installations, the app offers other useful features that make electricians' everyday work easier and combines them in one clearly organized app. The features are updated continually. Use does not require registration or login.



## Your Benefits:

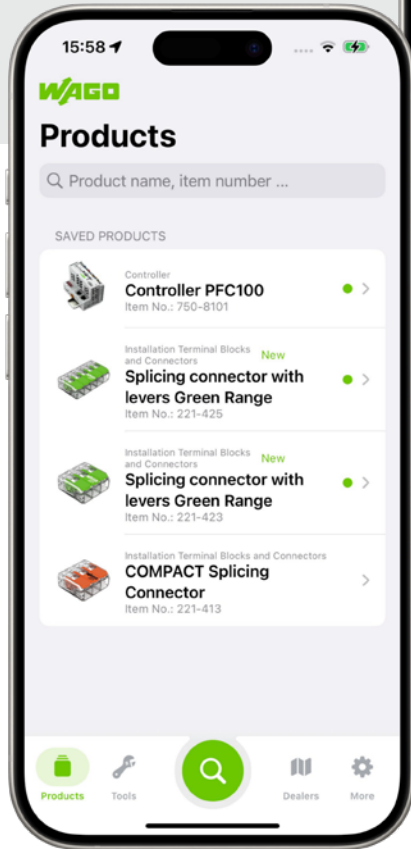
- All WAGO products information, at hand quickly at any time
- Helpful tools in the electrical area can also be used offline
- Available free of charge from all major app stores



Apple  
App Store

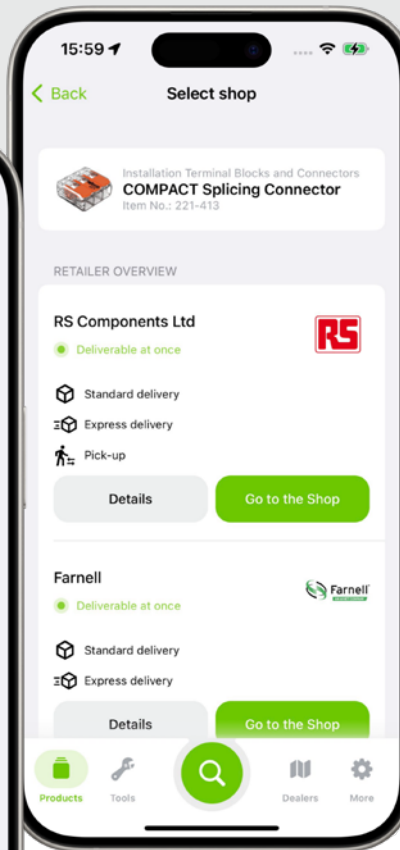


Google  
Play Store



### Product Code Scan and Image Recognition

Scan the product code or take a picture of the product for convenient access to all the product information.



### Product Information

Find product descriptions, data and instructions with just a few clicks.

### Store Finder

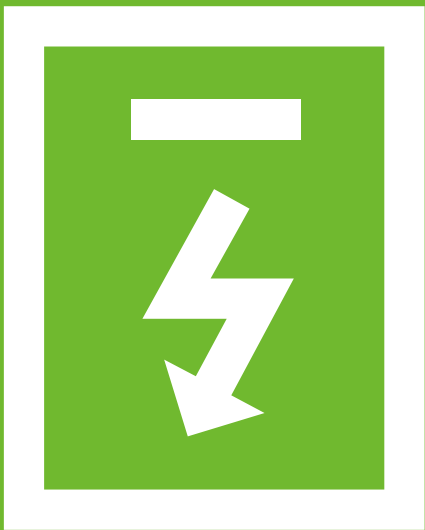
Get an overview of the dealer's current online product availability quickly and go directly to the appropriate store.

### Dealer Search

Find the right dealer near you.

### Tools

Handy tools are always close at hand, such as the cross-section calculator, the IP classification, the DIP switch generator and the unit converter.



# CONTROL CABINET MANUFACTURING



# Configuration, Control and Monitoring for a Large Number of Channels

## Multichannel Electronic Circuit Breakers (ECBs), Now with Communication Interface

Six new products are joining WAGO's range of ECBs. The 4- and 8-channel ECBs will soon come equipped with a communication interface. These devices allow a choice among IO-Link, Modbus RTU and Manchester protocol for configuration, control and monitoring.

Combining them with a controller makes it possible to read out current values, adjust tripping thresholds, configure behavior in limiting ranges, set an individual pre-warning and switch and reset channels individually. For example, if a value reaches a pre-specified threshold, the electronic fuse can signal the limit load and act promptly to provide controlled reduction of the current consumption.

In the event of overload or short circuit, the affected circuits are interrupted quickly and reliably. Therefore, active use of the electronic circuit breakers significantly increases system availability.

WAGO's 3861, 3664 and 3668 Series ECBs support all areas of mechanical engineering, in the process and manufacturing industries and in buildings, as well as in elevators and lifts.

In both the 4- and 8-channel variants, a slim 32 mm wide design makes replacement easy, requiring no additional space and allowing very flexible use. The pluggable connectors are also protected against mismatching and support pre-wiring, which reduces installation time significantly.



### Your Benefits:

- Configuration, control and monitoring via integrated communication interface
- Integration of ECBs on the controller side supports high system availability
- Efficient load management, even for high currents up to 16 A in parallel connection



### Item Numbers:

787-3664/0000-0080  
(4CH, IO-Link),  
787-3668/0000-0080  
(8CH, IO-Link),  
787-3664/0000-0060  
(4CH, Modbus RTU),  
787-3668/0000-0060  
(8CH, Modbus RTU),  
787-3664/0000-0050  
(4CH, Manchester),  
787-3668/0000-0050  
(8CH, Manchester)



Available:  
Q2/2024





# Without a Separate Redundancy Module: WAGO Power Supply Pro 2 Redundancy

Additional Family Members Available with Integrated MOSFET Functionality

To guarantee maximum system availability, power must be available for the corresponding system parts under all circumstances. Our WAGO Pro 2 Power Supplies with integrated MOSFET functionality let you set up redundant power supply systems, which can also be monitored continuously via communication modules. Modbus TCP, Modbus RTU, IO-Link and EtherNet/IP™ are available as the protocol for communication with higher-level control systems.

Unlike conventional power supplies, this eliminates the need for a separate redundancy module, controlling install costs and saving space.

With 1+1 redundancy, a single device can handle the total load, so the device is never overloaded. With n+1 redundancy, the utilization of the individual devices can be increased, leading to greater overall efficiency. At the same time, if one device fails, n devices take over the additional load this causes.

The new redundancy products still feature the proven technical advantages of the WAGO Power Supplies Pro 2. In particular, they still offer TopBoost and PowerBoost, as well as up to 96.3% efficiency.



## Your Benefits:

- **No additional redundancy module required due to integrated MOSFET functionality**
- **N+1 redundancy increases efficiency while cutting costs**
- **Using communication modules allows fast reaction in the event of a device failure to increase system availability.**



### Item Numbers:

2787-3146/000-030  
(24 V / 10 A / 1 ph.)  
2787-3448/000-030  
(24 V / 40 A / 1 ph.)



Available:  
Q2/2024

# ATEX and IECEx Approval Round out the WAGO Power Supply Pro 2 Product Portfolio

## An Intelligent Power Supply for Use in Hazardous Locations

An additional device category with ATEX and IECEx approval now joins WAGO's Pro 2 product line. With it, these power supplies can also be used in Zone 2 and Zone 22 hazardous areas. Hazardous areas include potentially explosive environments caused by escaping vapors or gases in combination with ambient air. So-called Ex areas and the devices used there follow extremely strict safety requirements. To meet these requirements, the power supply system requires a separate approval; this approval has now been issued for the Pro 2 product line's single-phase power supplies.



### Your Benefits:

- An Intelligent Power Supply for Hazardous Areas
- Snap-on type communication modules for parameterization, configuration and monitoring
- Maximum efficiency up to 96%



### Item Numbers:

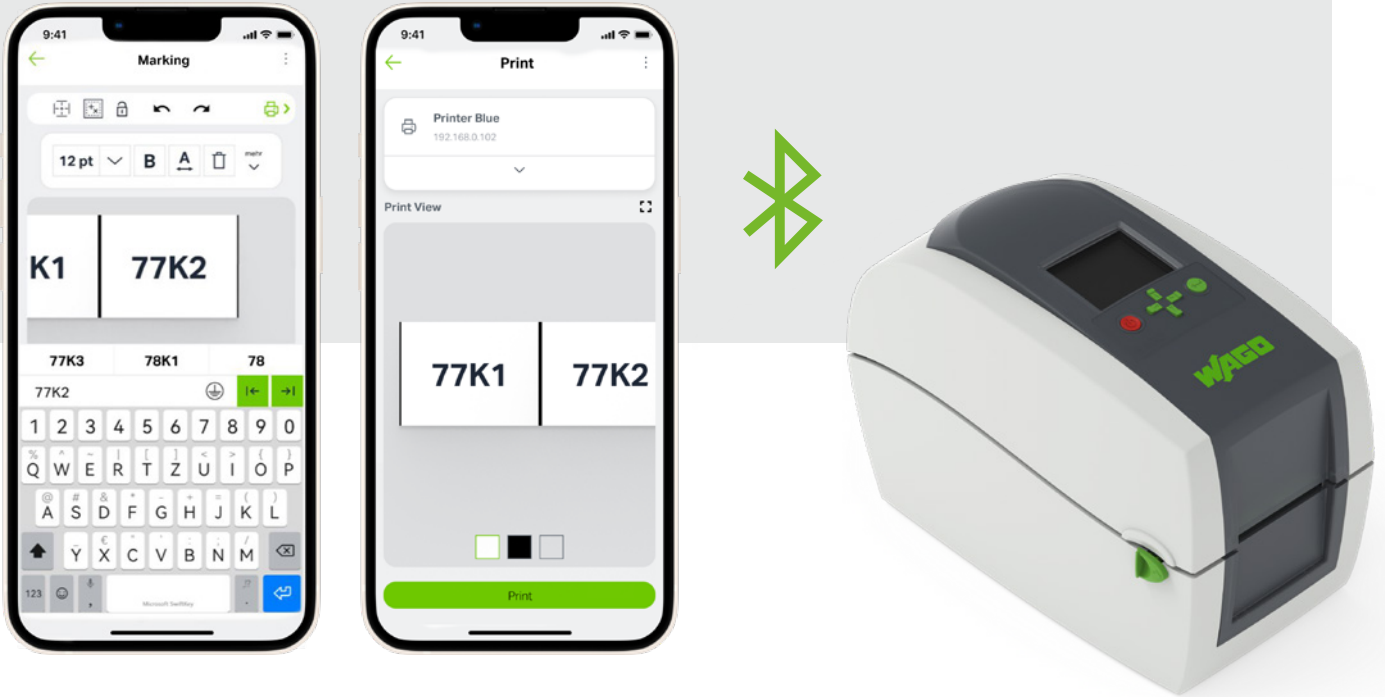
2787-2144/000-040 (5A)  
2787-2147/000-040 (20A)  
2787-2448/000-040 (40A)



### Available:

Q1/2024





# Flexible Marking – Wherever You Want

## WAGO's New Mobile Marking System

A new system is now available for mobile control cabinet marking – thanks to a new model of the WAGO Thermal Transfer Smart Printer and an associated new free marking app, users can deploy the system both in the workshop and on the construction site. This exceptional portability ensures maximum flexibility and time savings.

### Marking App

The WAGO Thermal Transfer Smart Printer is controlled via an intuitive marking app, which users can use offline via smartphone or tablet – or, if they wish, as a desktop app. The automatically generated content and the automatic item recognition by camera significantly save time: Simply scan the barcode of the required marking media, insert text in the editor – and use the automatic text suggestions – and then start the print job.

## Smart Printer

In addition to the familiar features, the Smart Printer now shines in a new design and has a new motherboard based on Linux®. It can be controlled via a *Bluetooth*® dongle. In addition, thanks to more memory, there is no limit to the length of the marking media, and thanks to a guided sensor setting via measuring tape, users can make more precise sensor settings. All known materials can be used – allowing users to mark the entire control cabinet at the construction site.



### Your Benefits:

- **Complete mobile marking system (printer and accessories, app, power bank, *Bluetooth*® dongle, bag)**
- **Maximum flexibility and time savings thanks to exceptional portability**
- **Intuitive marking app with automatic text suggestions**

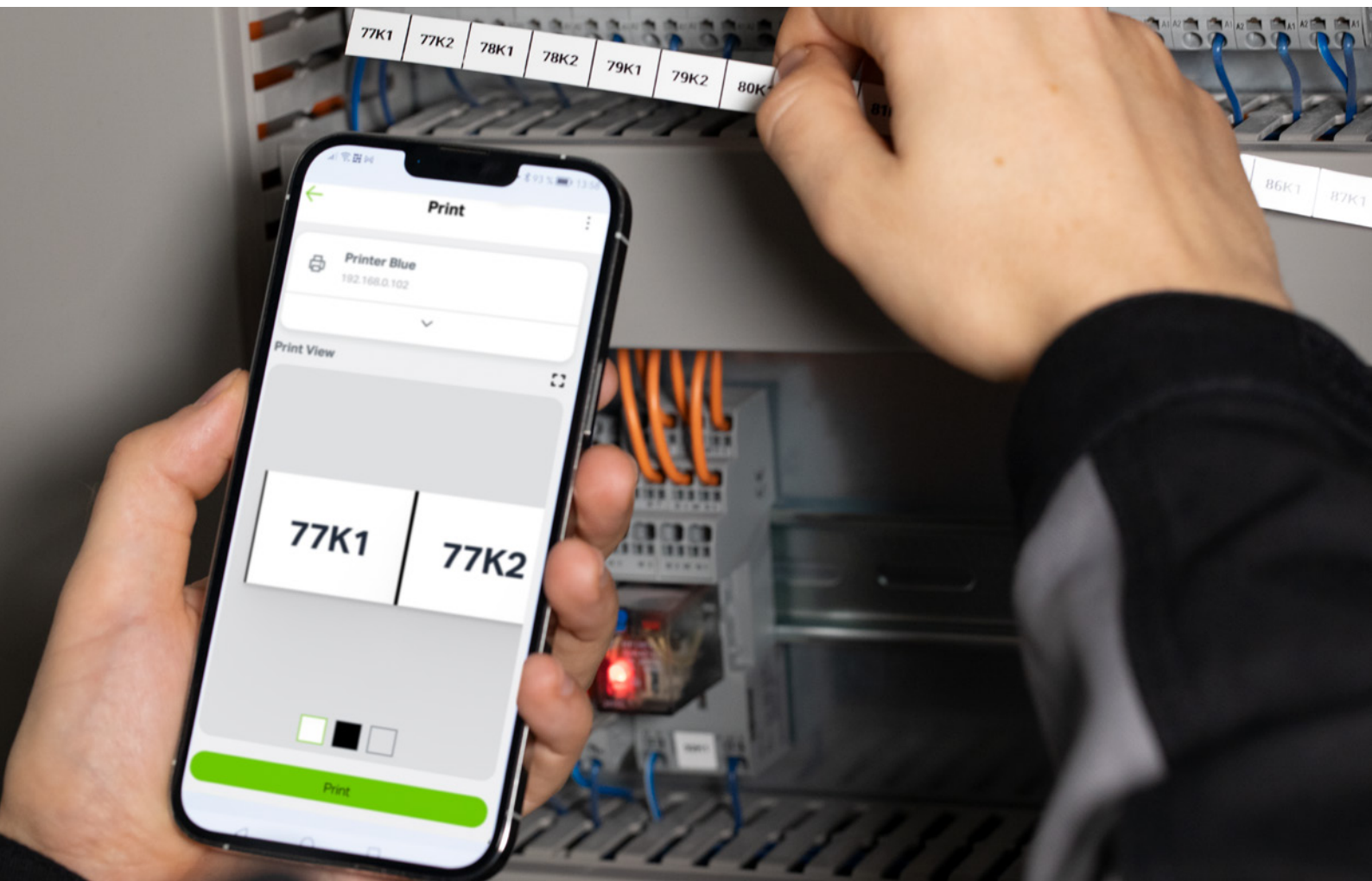


#### Item Numbers:

258-5100 (Starter Kit)  
258-5102 (*Bluetooth*® Adapter/Dongle)  
258-5104 (Power Bank)  
206-3010 (Tool Bag, 24 kg)



Availability  
Q2/2024



# Joint Control Cabinet Planning with WAGO and StriePlan

## New Interface to the CAE System StriePlan

WAGO now makes control cabinet planning with the StriePlan CAE System even faster and easier thanks to a large selection of free product data and a coordinated interface to the WAGO Configurator Smart Designer. Users can load the data directly into their StriePlan and start it – this way, they can maintain their item master easily, quickly and efficiently.

In addition, users can import their planning from StriePlan directly into the WAGO Configurator Smart Designer, benefiting from end-to-end data transfer and permanently simplifying their engineering and manufacturing. By exporting to Smart Designer, they can print their markings directly and use practical assistance systems, such as plausibility checks and marking assistants. The interface is a fixed software component starting with StriePlan Version 5.0 and does not need to be downloaded separately.



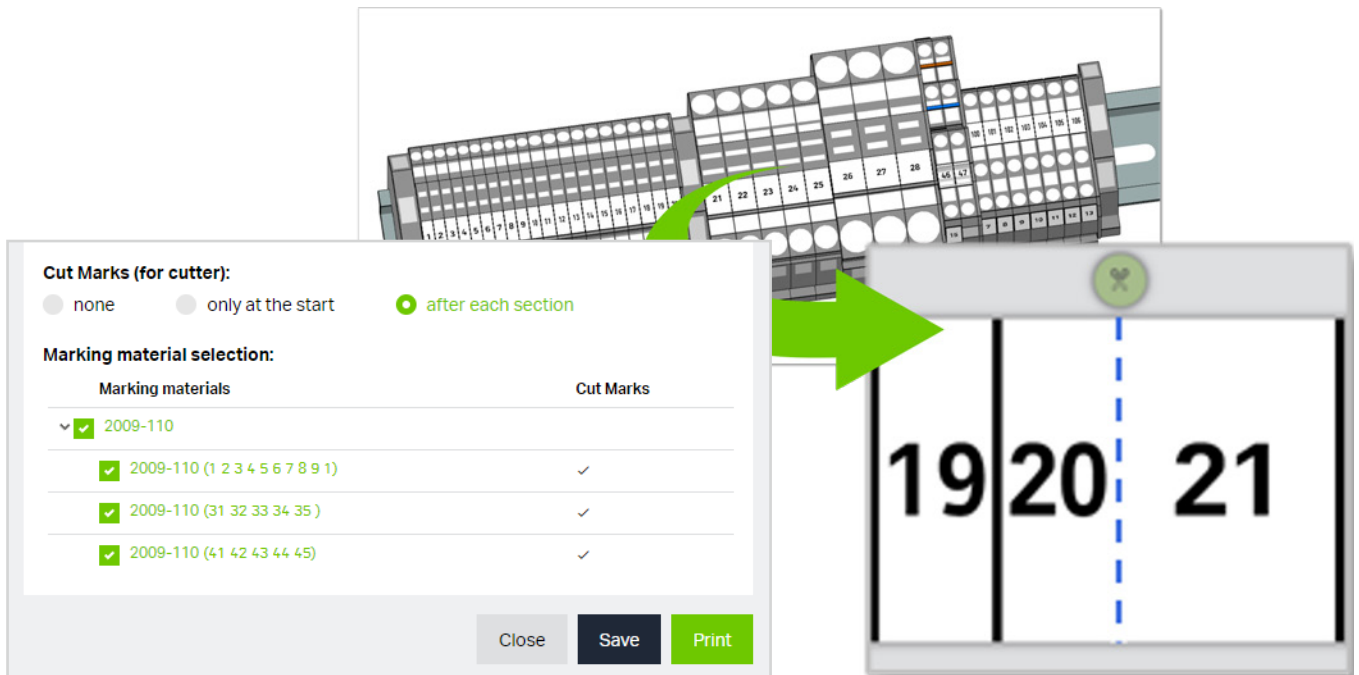
### Your Benefits:

- Large selection of free product data
- Fast and secure data transmission to the WAGO Configurator and marking solution
- Easy download – import – use

Software

Available





# New Functions in the WAGO Configurator Smart Designer

## Direct Ordering of Custom Configurations and Crop Mark Export to WAGO Marking Software Smart Script

### Configure2Delivery: Direct Ordering of Custom Product Configurations


Automatically creating DIN-rail configurations is already an established function offering in WAGO's Smart Designer configurator. Recently, WAGO expanded the ordering process: It is now possible not only to calculate custom configurations, but also order them directly from the WAGO Web Shop. With the new "Order" menu, users can now quickly and easily transfer DIN-rails with existing item numbers from Smart Designer directly into their Web Shop shopping cart and order them. In the "My Orders" area of the Web Shop, the tracking feature then provides transparent information on the processing status.

### Crop Mark Export to WAGO Smart Script Marking Software


The most recent Smart Designer update also further improves the digital process chain from

configuration to installation. In addition to pure marking information, it is now possible to export crop marks for the marking strips to the Smart Script marking software.

This allows the cut positions for the cutter of the WAGO Thermal Transfer Smart Printer to be transferred directly to the print job as based on the DIN-rail configuration. To do so, simply open the print dialog ("Project" -> "Print Marking") in Smart Designer and use the "Crop Marks" options to specify whether the strip should only be cut at the beginning or if each individual section should be cut. The pre-installed Smart Script software then opens automatically, and the print job, including the cut positions, is exported so printing can start immediately.



**Online Configurator**



**Available**



# Short, Space-Saving Design

## 1 mm<sup>2</sup> Double-Deck Terminal Blocks with Push-Buttons and Angled Conductor Entries

The WAGO TOPJOB® S Rail-Mount Terminal Blocks range now features new double-deck terminal blocks with push-buttons. These boast a shorter design than the existing WAGO TOPJOB® S Double-Deck Terminal Blocks with push-buttons: At less than 70 mm long, they don't take up much space in the control cabinet. They are also slightly angled, making laying conductors in the cable duct easier. The terminal blocks have a nominal cross-section of 1 mm<sup>2</sup>; a maximum of 1.5 mm<sup>2</sup> can be connected.



### Your Benefits:

- Shorter design saves control cabinet space
- Nominal cross-section of 1 mm<sup>2</sup>
- Compatible with 2000 Series end plates and accessories



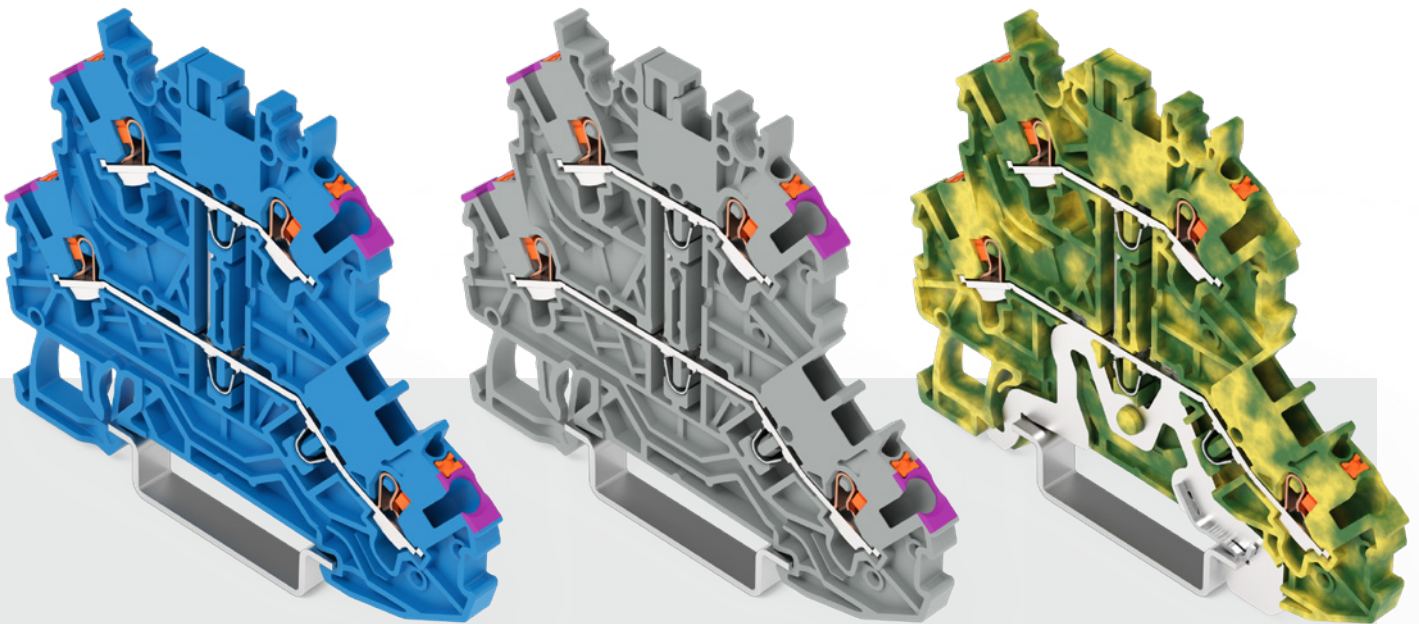
### Item Numbers:

2200-2201  
(Gray, without marker carrier)  
2200-2231  
(Gray, with marker carrier)  
2200-2207  
(PE (ground conductor))  
2200-2208  
(Internally commoned)



### Available:

Q2/2024







# Now for France, Belgium and Poland Too

## A New Addition to WAGO's Portfolio of Control Cabinet Outlets

The new WAGO control cabinet outlet with a type E interface now meets French, Belgian and Polish market requirements. It is available in three color variants (gray, yellow and red) and is designed for 16 A and 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (s, st, f-st).

The new control cabinet outlet also has color-coded connection ports to clearly identify the potentials and an angled conductor entry for convenient conductor wiring in the direction of view. The practical double loop-through connection links multiple outlets, so expanding outlet circuits is easy. That saves space in the warehouse and provides more control cabinet design flexibility.



### Your Benefits:

- **Clear potential assignment**
- **Easy voltage control via green status LED**
- **Quick expansion of outlet circuits**



### Item Numbers:

709-573 (red)  
709-572 (yellow)  
709-571 (gray)



**Availability**  
Q2/2024



# MECHANICAL ENGINEERING

# Controlling Complex Applications

## High-Performance WAGO PFC300 Controller with a 64-Bit CPU, 2 GB of RAM and Gigabit ETHERNET Ports

A powerful controller is required to implement sophisticated applications in mechanical engineering, buildings or the process industry. The PFC300 makes programming, control and visualization successful – universally and across industries. This is made possible by the Linux® operating system, a dual-core 64-bit CPU and 2 GB of RAM.

The controller has two Gigabit ETHERNET ports and an RS-485 interface with a terminating resistor that can be set via software.

A Modbus® RTU interface allows the PFC300 to communicate with third-party devices such as energy meters. Besides the ETHERNET interfaces, a USB-C interface is available for application and firmware updates. IEC programming of the controller is possible via CODESYS. The PFC300 is also Docker®- and cloud-capable for integrating third-party applications.

The PFC300 can control complex and resource-intensive applications. With a large memory of 2 GB of RAM and a processor with a 64-bit CPU, it can control and regulate applications that bring other controllers to their limits.



Item Number:

750-8302



Availability

Q2/2024



### Your Benefits:

- **Powerful controller for simultaneously evaluating large amounts of data**
- **Open Linux® operating system and Docker® technology for freedom**
- **Programmable manufacturer-independent with CODESYS V3.5**



# WAGO Edge Computer: New Solutions for Complex Applications

## Process and Optimize Large Data Volumes Directly at the Machine

Industrial processes are increasingly demanding more computing power in the field. Therefore, WAGO is expanding its Edge Computer portfolio with two powerful new WAGO Edge Computers with 16 GB of RAM and 32 GB of RAM.

Both devices feature a higher-performance processor, larger memory and an extended temperature range (-20 ... +60 °C), allowing faster data processing in various application areas. The pre-installed Debian Linux® operating system and Portainer container management software save system integrators and programmers time during commissioning.

With edge computing, users can put cloud functionality right on the machine and benefit from a seamless connection between IT and OT. WAGO's new Edge Computers are ideal for automation environments and offer a further option for flexible system design in complex applications.



### Your Benefits:

- Higher performance thanks to a more powerful processor and larger memory
- Quick commissioning via pre-installed Debian Linux® and Portainer
- TPM 2.0 chip and UEFI Boot Secure for greater security



### Item Numbers:

752-9412  
(16 GB RAM)  
752-9813  
(32 GB RAM)



Available:  
Q2/2024





# WAGO Web Panel 400 – Design Meets Technology

## An Economical Solution for Demanding Performance

With its state-of-the-art hardware and software, the WAGO Web Panel 400 is especially powerful and excels at displaying modern Web visualizations. The Web Panel uses the open Linux® operating system, just like the PFC200 controller platforms and WAGO Compact Controller 100, ensuring excellent system integration. Whether for CODESYS Web visualizations or more complex visualizations based on Grafana or similar Web-based visualizations, the WAGO Web Panel 400 is the right HMI for these tasks.

Another benefit: It can be operated wherever it's needed. Power is supplied either via a 24 V connection or directly via a network cable (PoE). For installations in rooms without a 24 V power supply, WAGO's PoE-capable switches can guarantee power even without a 24 V power supply unit. Mounting frames are available for secure surface and flush-mounting of the WAGO Web Panel 400, as for the TP600. The WAGO Web Panel 400 boasts a

high-quality design. A continuous glass front, combined with the bonded display, provides a crisp visualization. The PCAP touch technology used allows multi-touch gestures like zooming, making the visualization easier to navigate and operate. This economical Web panel offers excellent operability along with high-performance visualization.



### Your Benefits:

- **Cost-effectiveness and maximum performance**
- **Power supply via Power-over-Ethernet (PoE)**
- **High-quality design**



### Item Numbers:

762-3403 (7.0")

762-3404 (10.1")

762-3405 (15.6")



### Availability

Q3/2024



## 4-Port IO-Link Master Update with New Functions

Easy Parameterization of IO-Link Devices and New Certifications for Greater Flexibility in Machines and Systems

With the update to the 4-Port IO-Link Master, users can now parameterize IO-Link devices on PROFINET® directly via the engineering device description (GSD). The benefit this new function offers is that the IO-Link parameters are stored in the controller, making it easy for system operators to replace devices and reduce downtime. The functions are available with firmware V12 of the PROFINET® IO Fieldbus Coupler (item number 750-375). In addition to the larger process image and the new functions, the 4-Port IO-Link Master now also boasts UL, ATEX and DNV certification and offers greater flexibility in many applications.



### Your Benefits:

- Easy parameterization of IO-Link devices via device description
- Data transmission up to 128 bytes per module
- Certifications for UL, ATEX and DNV



Item Number:  
750-1657



Available

# Industrial ECO Switches: Ideal Infrastructure for Small and Medium Networks

## Reduce Energy, Time and Costs with Simple Plug-and-Play Operation

The growing trend towards networking in the industrial and building sector calls for even more powerful and compact switches: WAGO's Industrial ECO Switch with 8-Gigabit ETHERNET ports meets these requirements.

It is easy to install and provides the optimal infrastructure for small and medium-sized networks, making it ideal for networking tasks in public buildings, office complexes and any control cabinet applications in mechanical engineering. Thanks to an extended temperature range of  $-40\text{ }^{\circ}\text{C}$  to  $+70\text{ }^{\circ}\text{C}$ , the Industrial ECO Switch supports a wide variety of uses in industry and the energy sector. In addition, its slim design with a DIN-rail

adapter eases installation and saves space while offering high vibration and shock resistance.

The Industrial ECO Switch is fully compatible and has all the standard functions of the industrial switch (item number 852-1112), including automatic transmission rate detection (auto-negotiation) and independent detection of the send and receive lines (Auto MDI-X). These special features allow simple plug-and-play operation, which significantly reduces commissioning time and costs for mechanical engineers, technical planners and system integrators – while maximizing energy efficiency.



Item Number:

852-1112/000-001



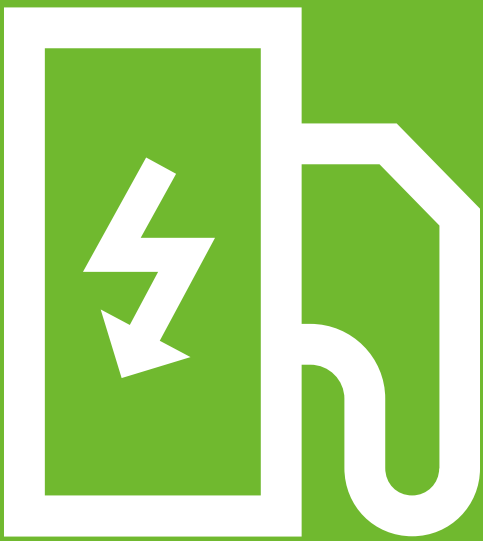
Available



### Your Benefits:

- Plug-and-play operation thanks to auto-negotiation and Auto MDI-X
- Easy installation on DIN-rail saves space
- Robust housing with standardized vibration and shock resistance





# ENERGY TECHNOLOGY



# Flexible Interface for Energy Data and Industrial Parameters

## The WAGO Monitoring Solution for Precise Energy Monitoring

The WAGO Monitoring Solution (or WMS) is a flexible monitoring and visualization tool for energy data and industrial parameters. The number of measuring devices and data points to be integrated is not limited with this tool, 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, the WMS consists of measuring 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. 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 familiar 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, and the fully customizable reports 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.



Software

Item Number:

2760-1031



Available



### 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





# Door Openers to Digitalization: New WAGO IoT Boxes Flex Gateway and Energy

The Ready-to-Use Solution for Building and Industrial Systems

Four new WAGO IoT Boxes grow the portfolio. The new products are the intelligent interface between a system and the "Internet of Things" and now work without a pre-installed software application. This makes the variants open, flexible and expandable for many applications.

As a complete solution, they can be quickly and easily installed in existing systems, retrofitting them for digitalization – without interrupting production.

The WAGO IoT Box Energy and the Energy MID models are aimed at energy and facility managers of new or existing industrial and building systems. This makes energy moni-

toring, data analysis, identification of optimization possibilities and predictive maintenance simple.

The WAGO IoT Box Flex Gateway LAN and the WAGO IoT Box Flex Gateway 4G are characterized by maximum configuration flexibility. The pre-configured base provides the existing system operator with a customizable basic structure that can expand at any time.



**Your Benefits:**

- Quick start to digitalization
- Customizable, easy to implement
- Compact design saves space over individual components

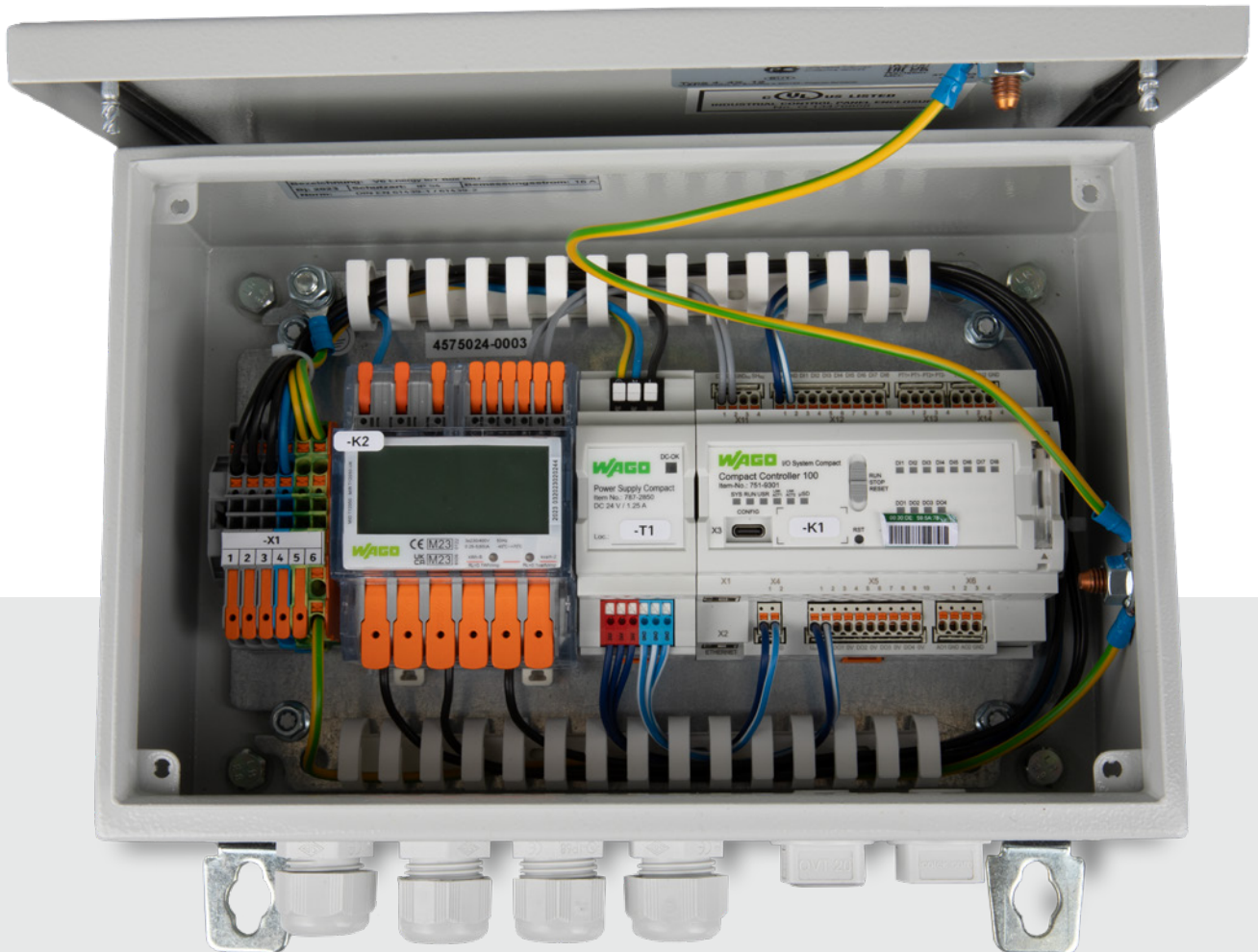


**Item Numbers:**

- 2854-0099/0000-0005  
(WAGO IoT Box Energy)
- 2854-0099/0000-0008  
(WAGO IoT Box Energy MID)
- 2854-0099/0000-0006  
(WAGO IoT Box Flex Gateway LAN)
- 2854-0099/0000-0007  
(WAGO IoT Box Flex Gateway 4G)



**Availability**  
Q2/2024



# Attractive for All System Types

## WAGO Application Customer Substation offers broad coverage and high profitability.

Whether generation plants, storage systems or load customers: For medium-voltage connections, customer substations must often transmit and receive data to the network operator. With the WAGO Application Customer Substation software, this succeeds swiftly in most of the German medium-voltage grid areas.

Customer systems can be connected to the software per the guidelines via IEC 60870-5-101/ IEC 60870-5-104/Modbus or digital inputs/ outputs communicate with the control system or gateway of the regional network operator. Thus, redispatch applications in the customer substation can be controlled – and prove extremely economical, especially in smaller systems.

In the future, existing systems will also be expandable, and mixed parks will be connected or expanded to existing EEG systems according to the standards and the different technical connection requirements (TCRs). This creates new possibilities for connecting battery storage systems, PV or wind turbines and charging parks. For example, in the energy sector, prioritization

can be made by downregulating certain systems. WAGO Application Customer Substation also regulates battery storage systems. Anyone who needs the storage system to regulate current levels can specify the supply and supply direction. The storage systems can be assembled modularly. Battery masters and slaves can be implemented.

### Expanded Certifications

The higher-level power generation plant controller (PGP controller) allows scalability and prioritization within a system. According to TAB 4110, the existing certification has been expanded to include TAB 4120, allowing for regulation of the supply and feed-in direction.

The WAGO Compact Controller 100 is an economical alternative to the PFC200 for compact systems. The WAGO Compact Controller 100 now also has PGP certifications, making it ideal for low-voltage applications.

WAGO Application Customer Substation is standardized software pre-configured for different network areas. It is available in German and English.



**Your Benefits:**

- Industry-proven telecontrol technology hardware; hardened per BDEW white paper
- Easy software parameterization with no programming per VDE-AR-N 4110
- Complete solution of hard- and software in a finished control cabinet
- Custom control cabinet solutions can be implemented.



**Software**

**Item Number:**

2759-2018/261-1000  
(WAGO Application  
Customer Substation  
Single License)



**Available:**

Q2/2024






# The Perfect Platform for Planning and Management

## WAGO Solutions Platform: Managing Cross-Device Applications Made Easy


Project planners in the energy and industry sectors benefit from the simple solutions offered by the WAGO Solutions Platform in their daily work. The platform offers a growing number of applications for monitoring, visualization and controlling many systems. Each individual application is user-friendly and intuitive to use. The WAGO Solutions Platform already includes the WAGO Grid Monitoring App, which can monitor substations and the downstream low-voltage network.

Relevant data can be passed on to higher levels as needed. In addition to energy management or monitoring, users' own applications can also be integrated into the platform and managed via Docker® containers. With this option, existing applications can continue to be used and managed. Commissioning the WAGO controllers is incredibly quick and easy: Use the WAGO App to scan the QR code generated in the platform, and then use the same app to scan the data matrix code of the target controller. With an existing Internet connection, the controller can be put into operation immediately. Planning involving multiple distributed controllers is where the WAGO Solutions Platform really shines.

The software interface is clearly organized, modern and intuitive to use. Use and operation require no special training. Users can import their own applications according to their specific requirements, allowing them to fine-tune the range of possible applications. The WAGO Solutions Platform can be used in the cloud or on-premises as needed.



**Software**



**Available**



### Your Benefits:

- **Easy commissioning of controller applications via QR code scan**
- **Fast, clearly organized project planning and software management**
- **Intuitive, user-friendly software requires no special training**

# On the Path to a Stable Grid

## WAGO Grid Monitoring App: Intuitive Visualization and Monitoring of the Low-Voltage Grid

The demands and challenges on the low-voltage grids are constantly growing. Legal requirements must be implemented on schedule, the number of decentralized producers is growing continuously and the demand for electrical energy is increasing simultaneously. As a result, stabilizing the grid has become increasingly challenging for the operator.

Stability in the low-voltage grid cannot be ensured without transparency. Grid operators must monitor and know what is happening in their grids at all times to swiftly take countermeasures and, last but not least, create possibilities for planning a future-proof grid expansion.

The WAGO Grid Monitoring App ensures substantial monitoring. As an application of the WAGO Solutions Platform, it analyzes both existing and newly established substations. This can be implemented by simple parameterization without any additional programming.

Operation in a closed grid is optional and guarantees high application security. The app's visualization is intuitive: It provides timely, detailed overviews of the currents, transformer load and output data. For even greater transparency, optional load flow analysis is also available for purchase to calculate voltages and currents throughout the entire distribution grid.



### Your Benefits:

- Intuitive visualization with live overviews of relevant grid parameters
- Commissioning via mobile app and QR code
- Operation in your own closed grid possible



Item Number:

2760-2210/0000-1100



Available



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