Economical solutions for decentralised automation tasks

FieldPower® – the modular solution for system automation

Let’s connect.
Benefit from the possibilities of modularisation
FieldPower® supports you with perfect solutions

Ever shorter product cycles require modular machine and system concepts that can be flexibly modified. FieldPower® provides the answer. With Weidmüller’s modular system, classic control cabinet functions can be easily combined into functional units and arranged decentrally in the field.

Your advantages with FieldPower® at a glance

Economical
The modular carry over parts principle offers a wide range of combination options and makes it possible to transition from IP20 to IP65 cost-effectively.

Function-based
Network you automation and digitalisation in the field with decentralised remote I/O systems that let you expand functionality as and when you need it.

Equipped for the future
Take advantage of a comprehensive, ever-expanding product range that meets all relevant safety standards.

Our modular system kit

The FieldPower® portfolio includes robust IP65 enclosure modules in various sizes with black or transparent plastic lids, as well as aluminium lids for cooling of power electronics. The enclosure modules can be combined for optimum adaptation to individual space requirements. Existing IP20 components can be used almost anywhere in the field due to the FieldPower® enclosure system. For example, control units and power distributors that are typically installed in the control cabinet can be mounted directly on the machine. The FieldPower® wiring concept allows direct connection of uncut power lines, which further increases the flexibility and safety of the system. The innovative sealing system covers a wide range of applications and also enables the use of pre-assembled cables. The range is rounded off by comprehensive services with continuous support from planning to ongoing operation.

Our FieldPower® offer

Catalogue items
The range of available catalogue items includes all elements of the FieldPower® modular system as well as ready-made solutions for power distribution and decentralised power supply. This enables you to meet your individual requirements quickly and easily. You will find all the necessary components in our online catalogue at: www.weidmueller.com/fieldpower

Individual solutions
Do you have a special application or cannot find the right products for your specific requirements in our product range? Then we are happy to support you in the development of an individual solution. The modularity of the FieldPower® system offers almost limitless possibilities. Get in touch with us: www.weidmueller.com/contact
**Select enclosure solutions according to requirements**

**Der FieldPower® – Enclosure kit**

When used in the field, the components usually have to withstand harsh environmental conditions. The possible environmental influences often place high demands on the products. To meet these requirements, the modular FieldPower® system includes robust IP65 enclosure modules.

- Combinable modules in different sizes
- Adaptation of the inside contour of the enclosure without CNC machining
- Wide selection of black and transparent lids
- Optional aluminium lids with cooling fins for power electronics
- Individual modification with operating and signalling elements

**Implement individual functions with a high degree of protection**

**FieldPower® – IP20 to IP65**

Modular plants require the combination of certain plant components with the functions needed there. With the flexible FieldPower® concept, almost any IP20 component from the control cabinet can be brought into the field.

- Tool-free installation of assembled and unassembled terminal rails
- IP20 components can be combined as required
- Integration of electronic circuit boards possible
- Mounting plates offer individual installation options
- Installation of power electronics

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**Table: Enclosure kit**

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**Table: Functional lid**

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**Table: Connector**

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**Table: Mounting rails**

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**Table: Plugs**

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*Note: The layout of the enclosure is divided in 3 sizes: 181 x 104 (Size 1); 196 x 196 (Size 2); 196 x 284 (Size 3).
Efficient and error-free wiring and connection
FieldPower® – Cabling solutions

Intelligent cabling solutions can save you valuable time and money. In addition, you prevent errors during installation. The FieldPower® modular system contains the right solution for every cabling task.

- Direct connection of uncut power lines
- Solutions for power distribution with or without plug-in connectors
- Foldable seals for the use of pre-assembled cables
- Seals available with M16 and M20 connection thread
- Integration of operating and signalling devices into the seal possible

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Consistent support from planning to operation
FieldPower® – Services

Are you looking for consistent support in the project planning and implementation of your decentralised and function-oriented concepts? Our wide range of services covers all phases, from planning to operation.

- Support in project planning with mCAD and eCAD models
- Standard-compliant adaptation to international markets – e.g. UL-compliant design
- Production of individually equipped terminal rails and pre-assembled cabling solutions
- Complete assembly of the function modules

Arrange a date now!
Which decentralized function unit do you need?
Make an appointment for a personal consultation:
www.weidmüller.com/contact
One system, many possibilities

FieldPower® enables decentralised and function-oriented automation

FieldPower®’s modular structure and clever design offer you a number of advantages in the context of decentralised and function-oriented automation. In addition to reduced control cabinet dimensions, this includes optimised wiring of all connected components. During project planning, you also benefit from the use of pre-assembled modules and the reduced number of individual parts. FieldPower® is particularly future-proof due to the option of expanding your system by adding functional units. And because components can be replaced very easily, you also reduce downtimes.

FieldPower® is the perfect solution for decentralisation. Due to the manifold possibilities of the modular system, a wide variety of applications can be realised. The following section shows how FieldPower® can be used to solve various challenges.

Power distribution
FieldPower® offers solutions for branching, switching, and protecting power directly at the plant.

Signals and data
FieldPower® simplifies the setup of a distributed signal and data structure by enabling the installation of any IP20 components in the FieldPower® enclosures.

Decentralised power management
In combination with the PROtop switching power supply, the FieldPower® modular system opens up completely new possibilities for power supply and fusing close to the loads.

More information
www.weidmüller.com/fieldpower
Branch, switch, and protect power
FieldPower® for tailor-made power distribution in the field

Challenge
The power supply is the heart of every plant. With a modular system concept, especially with large dimensions, there are special challenges for the power supply. On one hand, the power distribution must be decentralised and flexibly adaptable. On the other hand, the wiring effort must also be taken into account.

Solution
FieldPower® is the flexible, economical solution for decentralised power distribution in a wide variety of applications. The power is distributed via uncut cables. As a result, the impedance of the power bus line is particularly small and protective devices can operate reliably. Furthermore, the risk of wiring errors is minimised. The innovative modular system comprises solutions for branching, switching, and protecting power as well as the possibility of implementing individual solutions.

Your special advantages
- Solutions for branching, switching, and protecting power
- Use of commercially available round cables
- Reduced wiring effort due to branches close to the consumer on the power bus
- Low impedance for reliable protection and low voltage drop
- Minimisation of wiring errors

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Decentralised DC power generation and protection
FieldPower® enclosure with integrated power supply PROtop

Challenge
Today, 24/48 VDC power supplies are required for almost all plant areas. Power management and load monitoring usually take place in the control cabinet. In order to avoid voltage drops due to long distances between power supplies and loads, and to optimise wiring, the voltage should be generated as close as possible to the respective load.

Solution
PROtop power supplies offer a wide range of functions with many advantages. These include high energy efficiency, outstanding power reserves, high reliability, and optional communication capability. Thanks to the possibility of integrating our PROtop power supplies into the FieldPower® system, the entire range of functions can be made available in the field – with all the advantages of the FieldPower® modular system.

Innovative 24 VDC Smart Factory Grid
PROtop offers the possibility of direct parallel connection with consistent load balancing. If PROtop power supplies are integrated into FieldPower® systems, a standardised, modular, easily scalable, and expandable 24 VDC Smart Grid can be set up. It offers maximum reliability with optimised power supply workload.

Your special advantages
• Stable load supply with minimum voltage drop
• Fast device replacement in the event of a failure
• Savings on unnecessary wiring costs
• Possibility to realise a 24 VDC Smart Grid by integration into the FieldPower® system
• No downtime thanks to N+1 redundancy
Realise flexible signal and data infrastructures
Integrating IP20 components into the FieldPower® system

Challenge
Within a plant many signals and data have to be distributed and processed. The trend towards the Industrial Internet of Things (IIoT) additionally requires the communication of many components with cloud systems. It therefore makes sense to set up flexible infrastructures with the least possible wiring effort near to the plant.

Solution
The FieldPower® modular system offers the possibility of bringing a wide variety of IP20 components for distribution, communication, and processing of signals and data into the field. This means that their advantages and functions can be used decentrally. Typical applications are the installation of our u-remote I/O components or the communication of data via switches and routers within the system or directly into the cloud.

Your special advantages
- Distribution, communication, and processing of signals and data
- Possibility to install different IP20 components
- Low installation effort due to the use of pre-assembled connection cables
- Plug-and-play solutions for retrofiting a machine data acquisition system to existing plants
- Optimised wiring due to the flexible mounting positions

Future-oriented solutions for plant automation
The new variety of FieldPower®

The factory of the future offers growing challenges. This is why the FieldPower® modular system is constantly being expanded and supplemented. By implementing new technologies based on components, at data level or in engineering, FieldPower® solutions create real added value for the machines, plants, and processes of the future.

Control motors directly with variable Frequency drives
Due to the FieldPower® concept, variable frequency drives can be placed close to the motor. Various motor technologies and power levels are supported. In addition, all the advantages of the FieldPower® modular system can be used: Protection to IP65, individual configuration with additional functions and simple expandability – with highly efficient and error-free wiring.

Engineering with the Weidmüller Configurator (WMC)
Plan your decentralised FieldPower® solution with the Weidmüller Configurator. Our innovative engineering tool works with your familiar E-CAD system and makes it easier for you to put together individual functional units. This enables you to make optimum use of the possibilities offered by the entire FieldPower® modular system for your engineering.

Use of data-based services
The Industrial IoT opens up a wide range of possibilities for data-based control of your plants and processes. Connect the components of your plants and use the data from the field to generate real added value for your operations and services. We are continuously working on innovative and intelligent Industrial IoT solutions. Let’s connect.
Weidmüller – Your partner in Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

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