

Bachmann BlueNet

More efficient energy management and installation



BluNet

**BACH
MANN**

2.77kW 230V
50Hz 15°
P I 12.5A
1586.9kWh

BlueNet Made by Bachmann

Bachmann BlueNet. Recognising and using potential.

According to environmental surveys Germany could cut back its CO₂ emissions today by around 50 % by the consistent use of all the energy saving measures which are already available. Several studies conducted under the rubric of "Green IT" have demonstrated that the amount of CO₂ produced by the use of IT systems is roughly equivalent to that produced by global international air travel. These facts make it clear that increased efficiency in energy use is one of the most pressing issues facing us today.

Bachmann BlueNet creates the optimum conditions for efficient energy management in facility and IT. The system makes energy use transparent and therefore manageable through the use of intelligent products which help you to collect current data at the places where energy is actually being used. This helps you to recognize, document and use your energy saving potential.

Efficiency in energy management is one of the advantages of Bachmann BlueNet. Another is cost-effectiveness during installation. This is particularly important when you consider that around 40 % of office work stations are changed from the originally planned configuration within a year of being set up. Thanks to its modular construction and the use of pre-fabricated components for installation, as well as standard plug fittings, the installation costs of setting up Bachmann BlueNet may be reduced by up to 70 %. All in all this provides you with the best conditions for bringing economy and ecology together in harmony.

Bachmann BlueNet

Energy consumption securely in view and under control.



Energy monitoring and display

If you want to be able to monitor and control energy costs you first have to find out where and when they arise. The Bachmann BlueNet system keeps you up-to-date with all the relevant data on power consumption, voltage, output and more. BlueNet monitors connected office or user-group systems as well as IT systems independently of switchboards and displays all the data recorded in an easy-to understand format.

Web-based or bus system evaluation and control

Data recorded by the BlueNet system may be sent via the web or a bus system to a central PC monitor. The facility manager therefore has additional information available, for example, an overview of exact energy costs, such as available load reserves as well as on ways of influencing the power supply of each area being monitored.

Bachmann BlueNet system. Innovative technology – installed quickly and easily!

Lower installation costs using standard plug connections

The use of pre-fabricated components with plug connectors means that the time needed to install the Bachmann BlueNet system may be reduced by up to 70 % compared with the time needed for wiring up conventional systems in the Facility area.

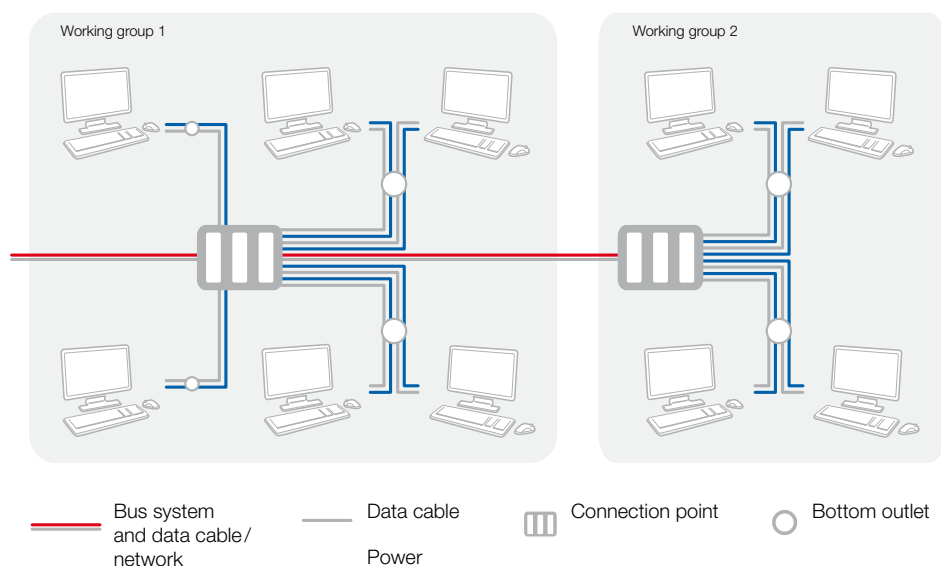
Future-proofed by optimum flexibility

Because of the mechanical plug connector coding system any home handyman can connect up the equipment effortlessly without having to call out an electrical engineer every time a change needs to be made. Whether you have to change the length of a cable or redirect power or data cables you will be able to make changes to the system yourself. Even in buildings which will later be let out to others, you can always be sure of success with a flexible system.

Efficiency even at the planning stage

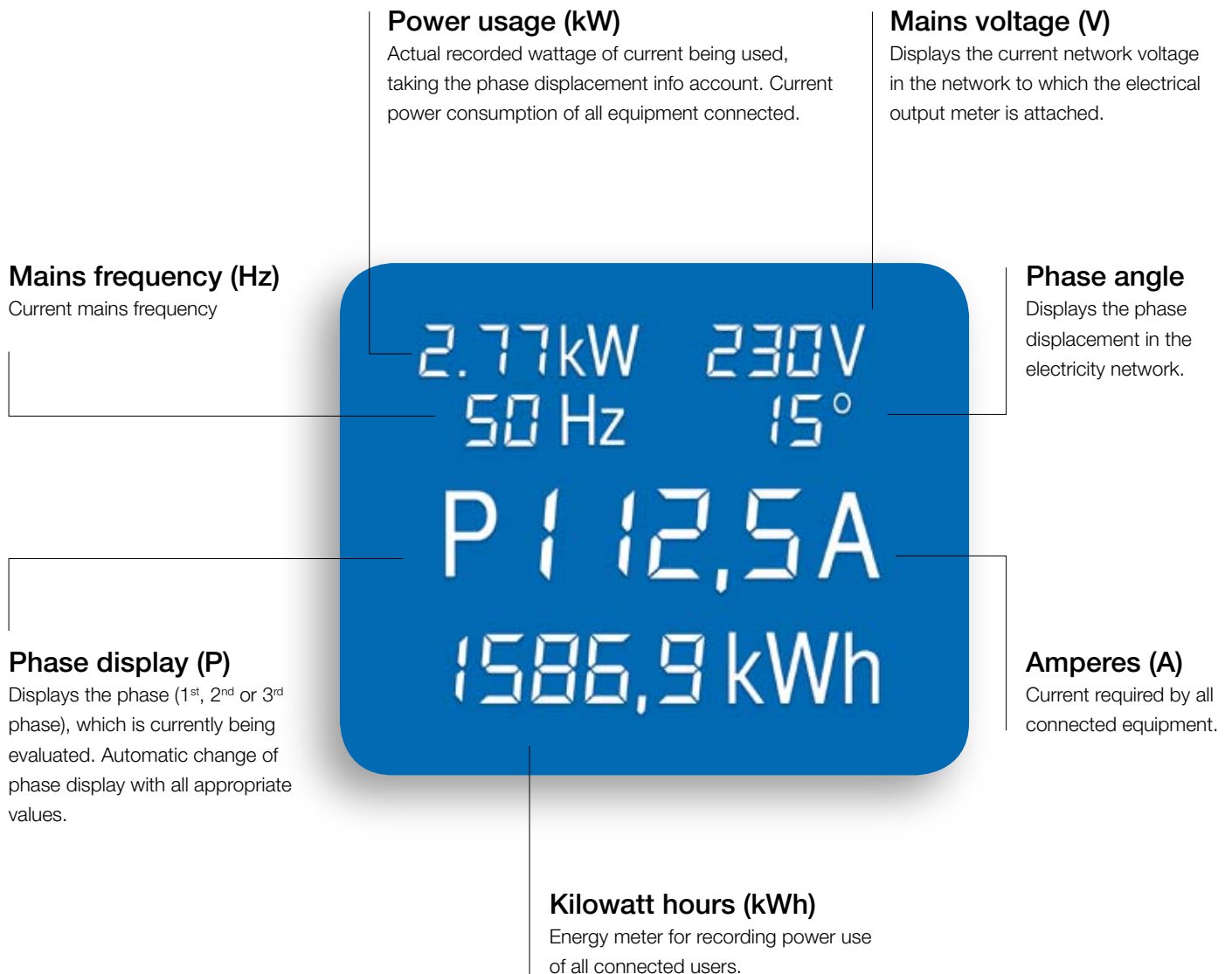
The high level of flexibility afforded by the Bachmann BlueNet system with its modular construction provides planners with almost boundless possibilities. The positioning of the components in the false floor (facility area) as well as in the IT cabinet may be chosen to suit you. Selecting the best layout of cabling can, for example, allow the planning to be optimised for costs and carried out in a future-proof way.

Simple structures for efficient planning and installation in the facility area.



Bachmann BlueNet

Knowing what's happening on the network.



The values shown on the display are calculated inclusive of phase angle and therefore comply with current statutory guidelines in relation to power supply equipment.

$$\text{Output: } P \text{ (W)} = U \text{ (V)} \times I \text{ (A)} \times \cos \phi$$

(Example: 2.77 kW = 230 V x 12.5 A x cos 15°)

Bachmann BlueNet

Ready for efficient management.



Facility and IT centrally recorded, evaluated and controlled.

Bachmann BlueNet gives you the complete picture thus ensuring that you have the basis for an efficient energy management system.

- Precise recording of power consumption of office or user-groups, individual departments, floors in the building and of IT systems
- Easy evaluation using current building management software via a bus system or SNMP
- Configurable switch-off or alarm thresholds for current and voltage monitoring and for avoiding critical situations in the facility and IT area and the recording of power used by hidden equipment

Central capacity planning

Bachmann BlueNet also makes it easier to plan for additional capacity in your business. Available load reserves are displayed and the facility manager can decide whether further work stations may be attached to the BlueNet system.

BlueNet

BlueNet Facility

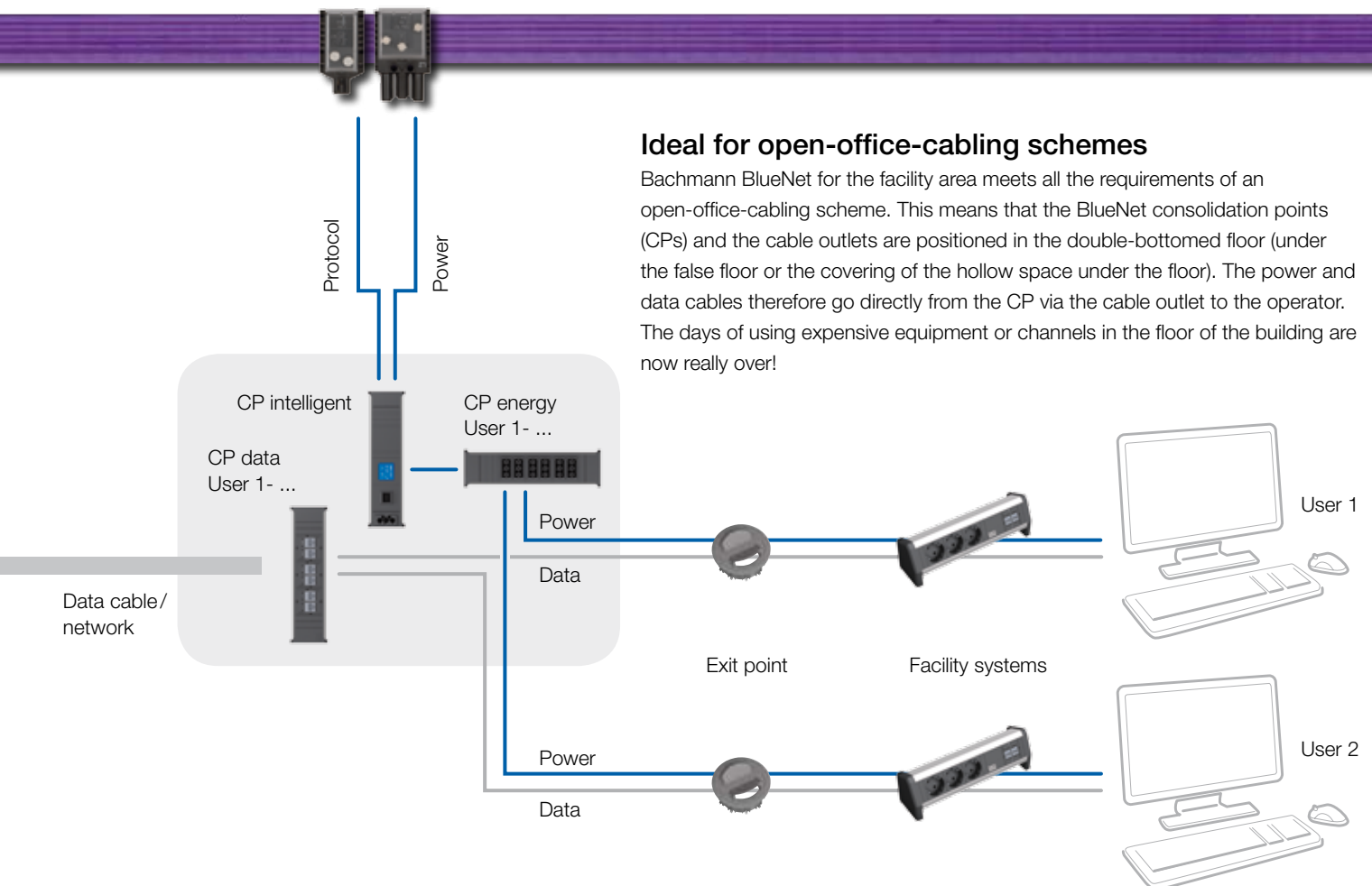
A few components make the perfect system.

Easy to plan, quick to install

Consolidation points (CPs), cable outlets, flat cable – these are all the simple components you need for an efficient energy management system in the facility area. The BlueNet system is built up in modules and allows the planner a free hand to position components as required. The pre-fabricated components with connecting plugs are quickly and easily installed. The cabling to the work station can easily be laid out in any desired position.

Ideal for open-office-cabling schemes

Bachmann BlueNet for the facility area meets all the requirements of an open-office-cabling scheme. This means that the BlueNet consolidation points (CPs) and the cable outlets are positioned in the double-bottomed floor (under the false floor or the covering of the hollow space under the floor). The power and data cables therefore go directly from the CP via the cable outlet to the operator. The days of using expensive equipment or channels in the floor of the building are now really over!



Flat cable

Net: 5x 2.5 mm²
 Bus: 2x 1.5 mm²
 Double screened

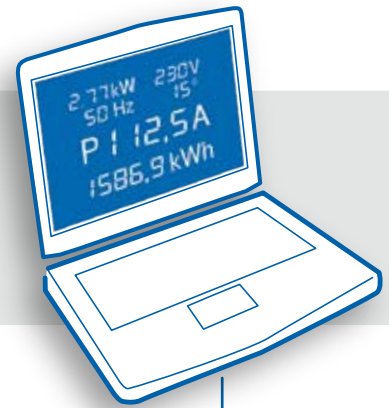


The optimum overviews for efficient energy management

The central component of the BlueNet system for the facility area is the consolidation point (CP). This collects and records consumption and output data, makes it visible on the display and makes it available to the building management system via a bus system.

Facility management directly on the pulse of the action.

The central recording and evaluation of all connected CPs is carried out via the bus system. Managers can therefore check and control all loads and users over the entire network.



Protocol recording point in the bus system or WEB-based.

Modular components of the BlueNet facility system.



BlueNet CP intelligent

- Power supply, e. g. via Wieland plug system
- Integrated power and output measurement with phase angle correction
- May be connected via the integrated bus system to all available building management systems
- Current partitioning to CP energy



BlueNet CP energy

- Power supply via the CP intelligent system
- Current partitioning via standard plug systems
- May be extended using additional modules



BlueNet CP data

- Patch panel for connecting the facility systems to data network



BlueNet exit point

- Bottom outlet for connection of all system cables to the work station



BlueNet Plug-and-Play connections

- Wieland system cables pre-configured in various lengths



Power and bus cable

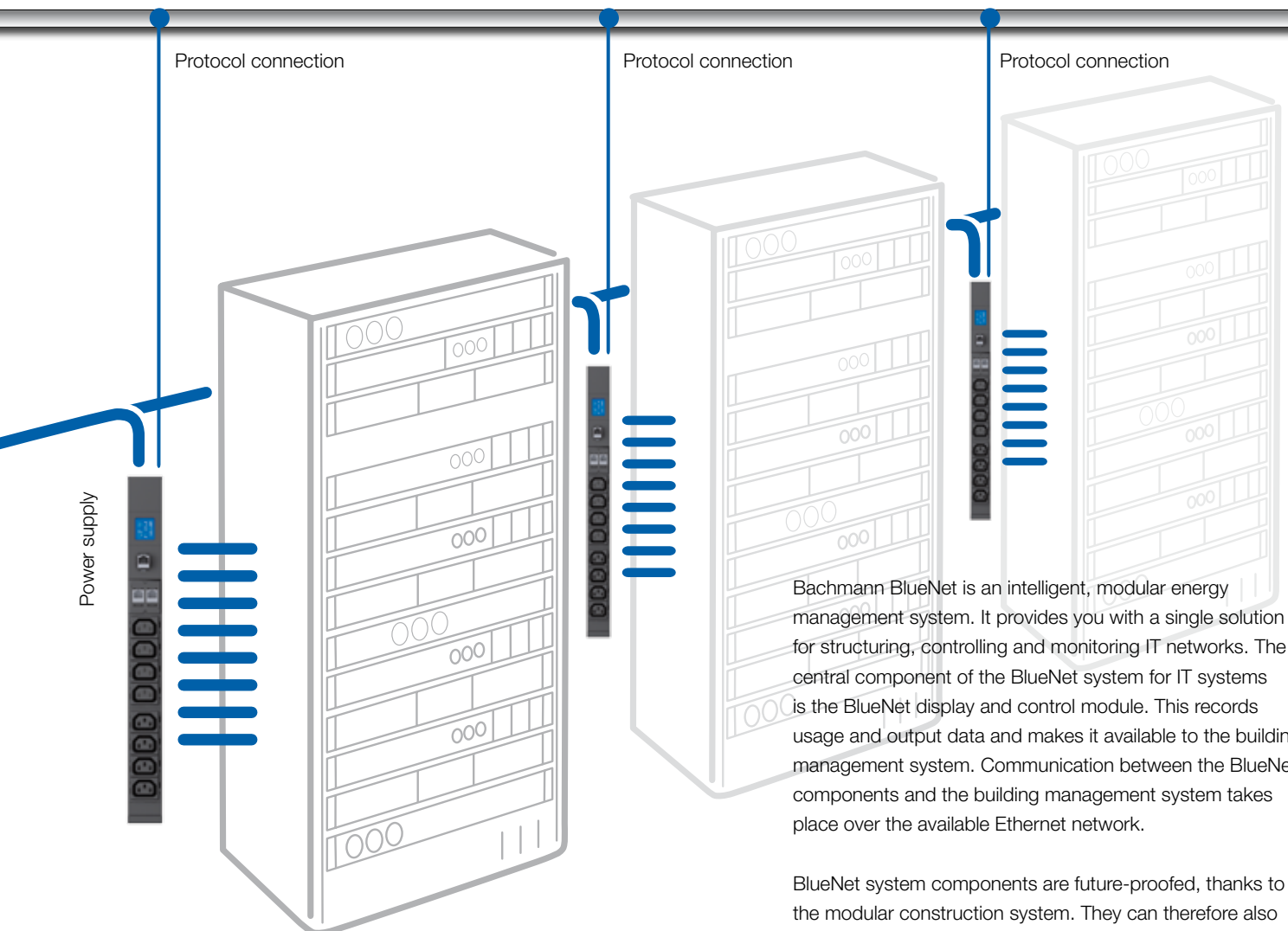
- Flat cable system with power leads and data bus
- Freely positionable outlet points for power, bus system and data

BlueNet IT

Securing networks for today and the future.

The permanent availability of IT systems is absolutely essential for every business. The rapid changes in this field make energy conservation systems necessary which are equally capable of adapting to changing situations both rapidly and flexibly. Delivery of the necessary business performance is therefore guaranteed at all times.

Data cable/network

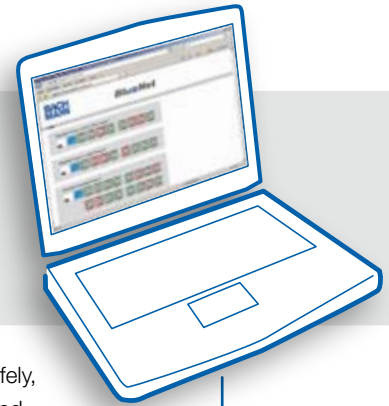


Bachmann BlueNet is an intelligent, modular energy management system. It provides you with a single solution for structuring, controlling and monitoring IT networks. The central component of the BlueNet system for IT systems is the BlueNet display and control module. This records usage and output data and makes it available to the building management system. Communication between the BlueNet components and the building management system takes place over the available Ethernet network.

BlueNet system components are future-proofed, thanks to the modular construction system. They can therefore also be easily configured to meet alternative requirements, such as for use in sensor technology for doorway surveillance and smoke detectors.

Transparency for secure IT management.

The Bachmann BlueNet system for IT systems ensures that energy is available safely, in a controllable way and so that its use can be recorded. The central recording and evaluation of connected components is possible in conjunction with all the current types of building management systems.



Protocol recording points on the CAN bus system or WEB-based

Modular components of the BlueNet IT system



BlueNet Power Control

- Integrated current and output measurement with phase angle correction
- Individual switchable plug sockets (C13, C19, 16A max. per plug socket)
- Bus capable (CAN bus) via RJ12 plug system
- Network-compatible (Webserver, Ethernet). The following protocols are supported: SNMP; DHCP; HTTP server, Telnet



BlueNet Power Control plus

- Integrated current and output measurement with phase angle correction
- Individual switchable plug sockets (C13, C19, 16A max. per plug socket)
- Bus-capable (CAN bus) via RJ12 plug and socket connector for extension of existing energy management profi plus systems
- Networking of energy management profi plus via CAN bus



BlueNet Switched

- Individual switchable plug sockets (C13, C19, 16A max. per plug socket)
- Network compatible (Webserver, Ethernet). The following protocols are supported: SNMP; DHCP; HTTP server, Telnet



BlueNet Monitored

- Network compatible (Webserver, Ethernet). The following protocols are supported: SNMP; DHCP; HTTP server, Telnet
- Resetting of values (RESET) is possible via Webserver or by pressing the RESET button on the cover of the electronic component box
- Fully isolated power inlets in accordance with low voltage appliance guidelines
- Direct connection up to 32 A (metering range from 0,01 A to 32 A)



BlueNet Metered

- Integrated current measurement from 0 to 32 A (depending on version) 3-digit Ampere-display
- Metering range from 0,01 A to 32 A
- Fully isolated power inlets in accordance with low voltage appliance guidelines

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You get a broad overview
of our product range in our
Facility and IT catalogues.



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