

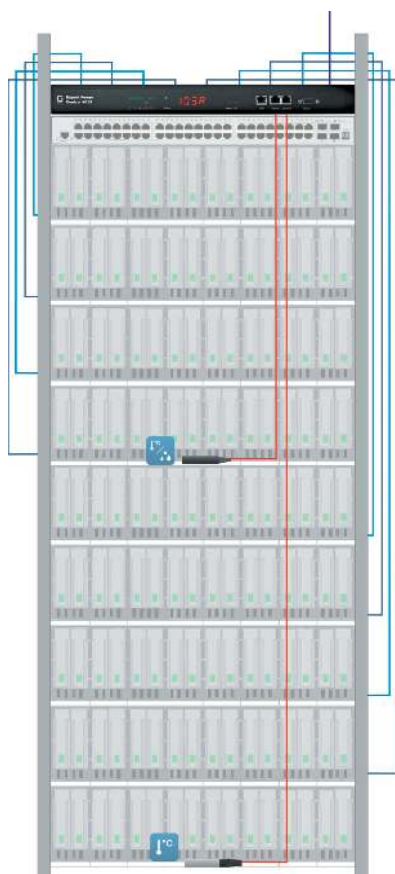
Switchable Power Distribution Units with energy metering per load outlet

new

Controlling and monitoring of connected consumers: From conference rooms to data centers



Expert Power Control 8045-2: 12 IEC-Lock outlets on the rear panel prevent unintentional disconnection of the cables



Application scenario for the new Expert Power Control Series

A standard 19 inch data center rack with 8 servers is deployed with customer critical applications running on the servers. The user's target: to implement a reliable power distribution as well as an intelligent device management regarding capacity and system monitoring - all at a reasonable cost-benefit ratio. With the new series of switchable IP power distributors, central objectives in the IT infrastructure can be achieved:

- Enhancement of energy efficiency
- Metering of energy consumption on rack and server level in real time
- Increased security for connected servers due to overvoltage protection
- Implementation of a reliable environment monitoring by additional cable sensors
- Prevention of down-times and of system critical conditions by residual current monitoring
- To ensure instant remote access in case of need
- Support of commonly used authentication and encryption protocols



1 Switched

The PDUs dispose on the rear side of 4, 8 or 12 load outlets IEC C13. This allows connected devices to be switched off and on in the event of a fault. Furthermore, the devices can be controlled on schedule due to integrated timer functions.



2 Outlet-Metered

Integrated energy meters on outlet level help to ensure a sustainable operation of the infrastructure. In addition, the user receives warnings when fault currents occur. This allows preventive maintenance even before downtime.



3 Monitored

Optional available sensors enable monitoring of environment temperature, humidity and air pressure. Thus, critical system conditions can be anticipated well in advance.



4-, 8- or 12-fold switched PDU with energy monitoring per power port

Residual current metering
Overvoltage protection type 3

Features

- Up to 12 Power Ports individually switchable directly on the device, via HTTPS, SNMP, command line tool and RS232 serial interface
- Status and Power-up delay (0...9999 seconds) adjustable individually for each Power Port after power blackout
- Latency time of 1 second prevents simultaneous power-up of multiple Power Ports
- Programmable timetables and turn-on/turn-off sequences
- 2 energy meters per port (outlet-metered): one meter continuously, the other resettable
- Metering of energy, current, power factor, phase angle, frequency, voltage and active / apparent / reactive power
- Residual current metering type A
- A clearly visible LED display for total current, IP address, sensor data and error reports
- An individual watchdog (ICMP/TCP) can be assigned for each Power Port
- Integrated overvoltage protection (SPD) type 3 prevents damage of device and of connected consumers (L-N, L/N-PE), status retrievable over network
- 2 interfaces for optional sensors for environmental monitoring (temperature, humidity and air pressure)
- Event-based port switching possible by set sensor thresholds
- Internal beeper for acoustic alarm for set sensor thresholds
- Comfortable configuration by web browser, Windows or Linux tool
- Firmware update via Ethernet during operation
- IPv6-ready
- HTTP/HTTPS, e-mail (SSL, STARTTLS), DHCP, Syslog
- SNMPv1, v2c, v3 (Get/Traps)

- TLS 1.0, 1.1, 1.2
- Radius and Modbus TCP support
- Configuration and control via Telnet
- Access control via IP Access Control List
- Android and iOS app *Gude Control* allows access from anywhere
- Low internal power consumption
- Developed and manufactured in Germany

Electrical Connections

- Power supply IEC C20, max. 16 A, 230 V
- Power Ports: 4, 8 or 12 IEC C13 (Lock), max. 10 A
- Ethernet connector RJ45 (10/100 Mbit/s)
- Serial interface RS232 (Sub-D 9-pin)
- 2 RJ45 interfaces for optional sensors

Technical Details

- Dimensions: 19 inch, 1 rack unit
- LxD: 43.9 x 4.4 x 17.8 cm (without brackets)
- Weight: ca. 2.2 kg
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)

Order Code	Product	Rear connectors	Shared Features
8025-1	Expert Power Control 8025-1	4 x IEC C13	Operating voltage: 230 V, max.: 16 A Energy metering per power port Residual current metering type A Overvoltage protection (SPD) type 3 2 sensor ports with RJ45 socket HTTPS, SSL, IPv6, SNMPv3, Telnet, Radius, Modbus TCP
8035-1	Expert Power Control 8035-1	8 x IEC C13	
8035-2	Expert Power Control 8035-2	8 x IEC C13 Lock	
8045-1	Expert Power Control 8045-1	8 x safety socket type F (DE)	
8045-2	Expert Power Control 8045-2	12 x IEC C13	

Order Code	Product	Feature
7101	Temperature Sensor 7101	Cable sensor with splash-proof sensor head (IP64), RJ45 connector, -20°C to +80°C, cable ca. 2.3 m
7104 *	Temperature Sensor 7104	Cable sensor, RJ45 connector, -20°C to +80°C, cable ca. 2.3 m
7105 *	Temp./Humidity Sensor 7105	Cable sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity, cable ca. 2.3 m
7106 *	Temp./Humidity/Air pressure Sensor 7106	Cable sensor, RJ45 connector, 20°C to +80°C, 0-90% humidity, 300-1100 hPa, cable ca. 2.3 m
* Sensors also available with calibrated temperature range: 7104-2, 7105-2, 7106-2		
0804	IEC Extension Cable 0804	Extension cable for IEC C13 to C14, length: 3 m
0871	Desk/Wall Bracket 0871	Accessories for mounting a 19-inch device under a tabletop or on a wall
0872	Cable Holder 0872	13 fixation bridges for load cables at the rear side (not for 8031-3)



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