Switched & Metered Power Distribution Units

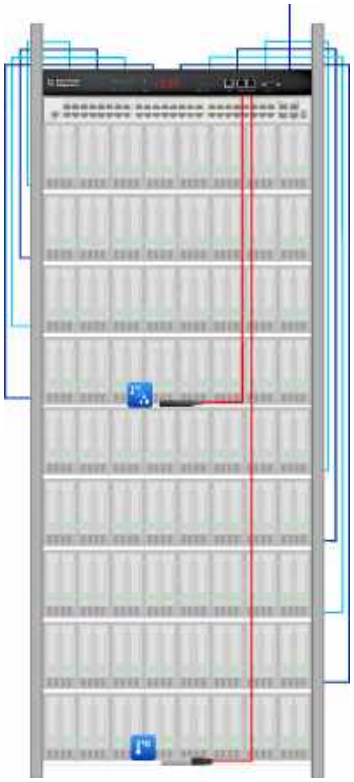
Switchable IP Power Sockets for all needs: New **Expert Power Control Series**

new

Increased security and control in your installation - from conference rooms to the data centers

Whenever you need to implement **reliable power distribution** and **intelligent device management** in an IT infrastructure with a perfect cost-benefit ratio, the switchable IP power distributors of the Expert Power Control series come into play: They allow you as a demanding user considerable benefits in terms of **utilization and monitoring of your installation**:

- Enhancement of **energy efficiency**
- Reducing **electricity costs**
- Metering of **energy consumption** on rack and server level in real time
- Increased security for connected servers due to **overvoltage protection**
- Permanent **environmental monitoring** thanks to plug-n-play cable sensors (temperature, humidity and air pressure)
- Prevention of system critical conditions through **residual current monitoring**
- **Remote access** allows proactive and timely corrective actions
- Enhanced security with support for common **authentication and encryption protocols**
- Reduction of **downtime** and thus saving of significant **service costs**



More security and control for your servers: A switchable PDU with cable sensors belongs in every 19-inch rack

Triple Play of the new Expert Power Control Series

1 Green Building

With the new IP switching sockets, the power consumption of the installation can be effectively reduced: The collective **switching off of consumers, even in standby mode**, as well as the integrated energy meters 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.

2 „Reboot is always good“

The PDUs have 4, 8 or 12 load outlets on the rear (IEC C13 or safety socket). This allows **connected devices to be switched off and on in the event of a fault**. This is especially possible via media controls and DCIM solutions. Defined thresholds ensure that **event-based switching** can be initiated. Furthermore, the devices can be controlled on schedule due to integrated timer functions.

3 Environment monitoring

Two integrated sensor interfaces for optional available sensors enable to **monitor environment temperature, humidity and air pressure**. Due to real-time surveillance and early overload and threshold alarms, critical system conditions and down-times can be avoided. Thanks to plug-and-play sensors, startup operation with Expert Power Control Series is quickly done.

Electrical Connections

- Power supply IEC C20, max. 16 A, 230 V
- Power Ports: 4, 8 or 12 IEC C13 (Lock), max. 10 A or 8 safety socket type F, max. 16 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
- LxHxD: 43.9 x 4.4 x 17.8 cm (without brackets)
- Weight: ca. 2.7 kg
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)

GUDE Systems GmbH
Von-der-Wettern-Str. 23
51149 Koeln · Germany

mail@gude.info
www.gude.info
shop.gude.info

T +49.221.912 90 97
F +49.221.912 90 98

made in Germany

Switched & Metered Power Distribution Units

4, 8, 12 | 8 | 8 | 2

4-, 8- or 12-fold switched PDU for reduction of power consumption, for remote control and for environment monitoring

Residual current metering
Overvoltage protection type 3

Features

- Up to 12 Power Ports individually switchable directly on the device, via HTTPS, SSH, 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: 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, 1.3
- Telnet, Radius and Modbus TCP support
- 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



Expert Power Control 8031-4: 8 sockets Type G (BS 1363) requiring just one rack unit



Expert Power Control 8041-2: IEC Lock sockets prevent accidental disconnecting of IEC cables

Order Code	Product	Rear connectors	Shared Features
8021-1	Expert Power Control 8021-1	4 x IEC C13	Operating voltage: 230 V , max.: 16 A
8031-1	Expert Power Control 8031-1	8 x IEC C13	Unit metered
8031-2	Expert Power Control 8031-2	8 x IEC C13 Lock	Residual current metering type A
8031-3	Expert Power Control 8031-3	8 x safety socket type F (DE)	Overvoltage protection (SPD) type 3
8031-4	Expert Power Control 8031-4	8 x type G, BS 1363 (GB)	2 sensor ports with RJ45 socket
8041-1	Expert Power Control 8041-1	12 x IEC C13	HTTPS, SSH, SSL, IPv6, SNMPv3, Telnet, Radius, Modbus TCP
8041-2	Expert Power Control 8041-2	12 x IEC C13 Lock	Made in Germany

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, 8031-4)

GUDE Systems GmbH
Von-der-Wettern-Str. 23
51149 Koeln · Germany

mail@gude.info
www.gude.info
shop.gude.info

T +49.221.912 90 97
F +49.221.912 90 98

made in Germany