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

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:

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

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)
Switched & Metered Power Distribution Units

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

**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 redefinable
- 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

**Order Code** | **Product** | **Rear connectors** | **Shared Features**
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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 RI45 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**
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7101 | Temperature Sensor 7101 | Cable sensor with splash-proof sensor head (IP64), RI45 connector, -20°C to +80°C, cable ca. 2.3 m
7104 * | Temperature Sensor 7104 | Cable sensor, RI45 connector, -20°C to +80°C, cable ca. 2.3 m
7105 * | Temp./Humidity Sensor 7105 | Cable sensor, RI45 connector, -20°C to +80°C, 0-90% humidity, cable ca. 2.3 m
7106 * | Temp./Humidity/Air pressure Sensor 7106 | Cable sensor, RI45 connector, 20°C to +50°C, 0-90% humidity, 300-1100 hPa, cable ca. 2.3 m
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)

* Sensors also available with calibrated temperature range: 7104-2, 7105-2, 7106-2

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