

## Switchable Power Distribution Units with energy metering per load outlet

Controlling and monitoring of connected consumers: 8-fold switched PDU with energy monitoring per outlet



**Expert Power Control 8035-6:** 8 loads with NEMA 5-15 plugs can be connected on the rear panel of the power distributor

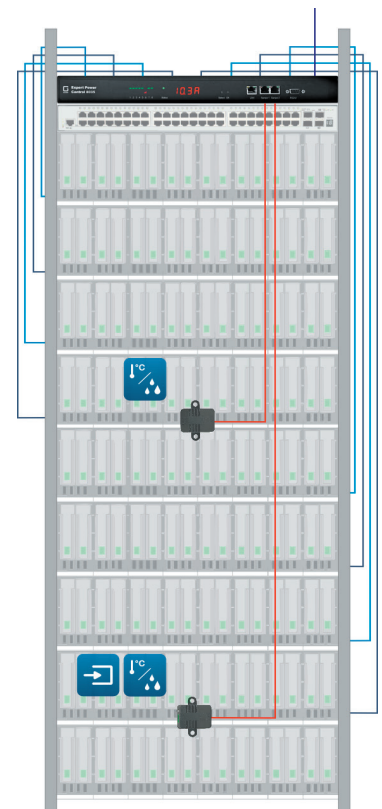
### Use cases for Expert Power Control 8035

The smart Power Distribution Unit (PDU) is the perfect IP power solutions when it comes to **intelligent device management** and **increased resilience of AV and IT infrastructures**.

In a standard 19 inch rack with customers' applications running on servers, the PDU enables **reliable power distribution** as well as **capacity and system monitoring** in real time - all at a **reasonable cost-benefit ratio**. In addition, Expert Power Control 8035 is a game changer in any AV installations, empowering users to control, manage or reboot connected AV appliances with a tap of your finger.

### Key benefits

- ▶ **Instant remote access** and **automated power cycling** when playout systems or streaming boxes are down
- ▶ Enhancement of **energy efficiency**
- ▶ Metering of **energy consumption on rack and server level** in real time
- ▶ Implementation of a reliable environment monitoring by **plug-n-play sensors** (temperature, humidity and signal inputs)
- ▶ Support of commonly used **authentication and encryption protocols**
- ▶ Prevention of down-times and of system critical conditions by **residual current monitoring**
- ▶ Increased security for connected servers due to **hybrid surge protection (SPD type 3)**



**Expert Power Control 8035-6** with 8 connected loads and sensor monitoring in a 19" rack

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made  
in  
Germany



8

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Power & sensor monitoring  
Surge protection type 3



## 1 Switched

The PDUs dispose on the rear side of 8 load outlets NEMA 5-15. 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

Plug-n-play cable sensors enable monitoring of environment temperature, humidity and air pressure. Thus, critical system conditions can be anticipated well in advance.

### Features

- 8 power outlets 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 for outlet-metering per port: 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
- Overvoltage protection prevents damage of device and of connected consumers (L-N, L/N-PE), status retrievable over network
- 2 interfaces for plug-n-play cable 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
- Hybrid surge protection (SPD type 3)
- HTTP/HTTPS, e-mail (SSL, STARTTLS), DHCP, Syslog

- SNMPv1, v2c, v3 (Get/Traps)
- TLS 1.0, 1.1, 1.2
- Radius, Modbus TCP and MQTT 3.1.1 support
- Configuration and control via Telnet
- Access control via IP Access Control List
- Low internal power consumption
- Developed and manufactured in Germany

### Electrical Connections

- Power supply NEMA 5-15, max. 15 A, 120 V
- Power Ports: 8x NEMA 5-15, max. 15 A
- Input current: 15 A
- Outlet current: 12 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", 1 rack unit
- LxHxD: 17.28" x 1.73" x 7.01" (without brackets)
- Weight: ca. 5.9 lb
- Operating temperature: 32-122 °F
- Storage temperature: -4 - 158 °F
- Relative humidity: 0 - 95% (non-condensing environment)

Order Code	Product	Features	Power supply	Max. current
8035-6	Expert Power Control 8035-6	8 switchable outputs NEMA 5-15, energy metering per power port, overvoltage protection (SPD) type 3	120 V	15 A
7205	Temp., Humidity Sensor 7205	Combined temperature/humidity sensor with RJ45 socket, -4 °F to +176 °F, 0-100% humidity, cable length up to 131 ft. possible		



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