

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

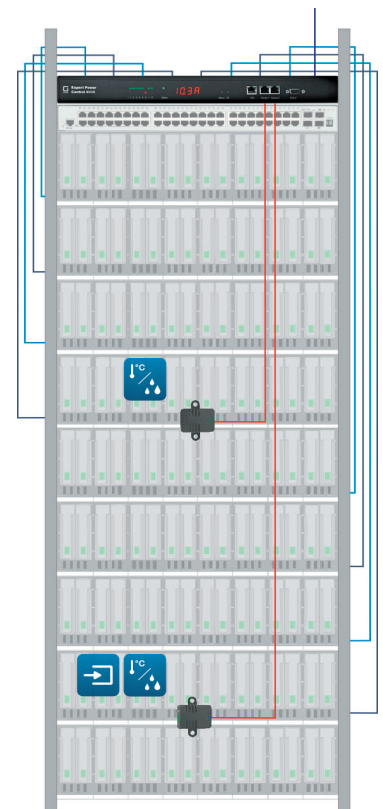
Use cases for Expert Power Control 8035

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
- ▶ Increased security for connected servers due to **overvoltage protection (SPD type 3)**
- ▶ 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**



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

Our trusted technology partners:

Control4

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Residual current metering
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
- 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
- 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		
7209	Temp., Humidity, Signal sensor 7209	Combined temperature/humidity sensor with 2 signal inputs and RJ45 socket, -4 °F to +176 °F, 0-100% humidity, cable length up to 131 ft. possible		
0871	Desk/Wall Bracket 0871	Accessories for mounting a 19-inch device under a tabletop or on a wall		



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