Switchable IP power solutions for every need: Expert Power Control Series

From AV furniture, huddle spaces and conference rooms to IT racks: 8-fold switched PDU with energy metering

Expert Power Control 8031-6: 8 loads with NEMA 5-15 plugs can be connected on the rear panel of the power distributor

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 unit level** in real time

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

- Implementation of a reliable environment monitoring by **plug-n-play sensors** (temperature, humidity and signal inputs)

- Support of commonly used **authentification and encryption protocols**

- Prevention of down-times and of system critical conditions by **residual current monitoring**

Use cases for Expert Power Control 8031

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**. It empowers operators to **control**, **manage** and **reboot connected AV appliances** with a tap of a finger.

The **collective switching** off of loads, even in standby mode, and the integrated energy meters help to ensure **sustainable operation** of the infrastructure. In addition, users receive warning messages when fault currents occur. This enables **preventive maintenance measures** to be taken before downtime occurs.

Power & sensor monitoring Surge protection type 3
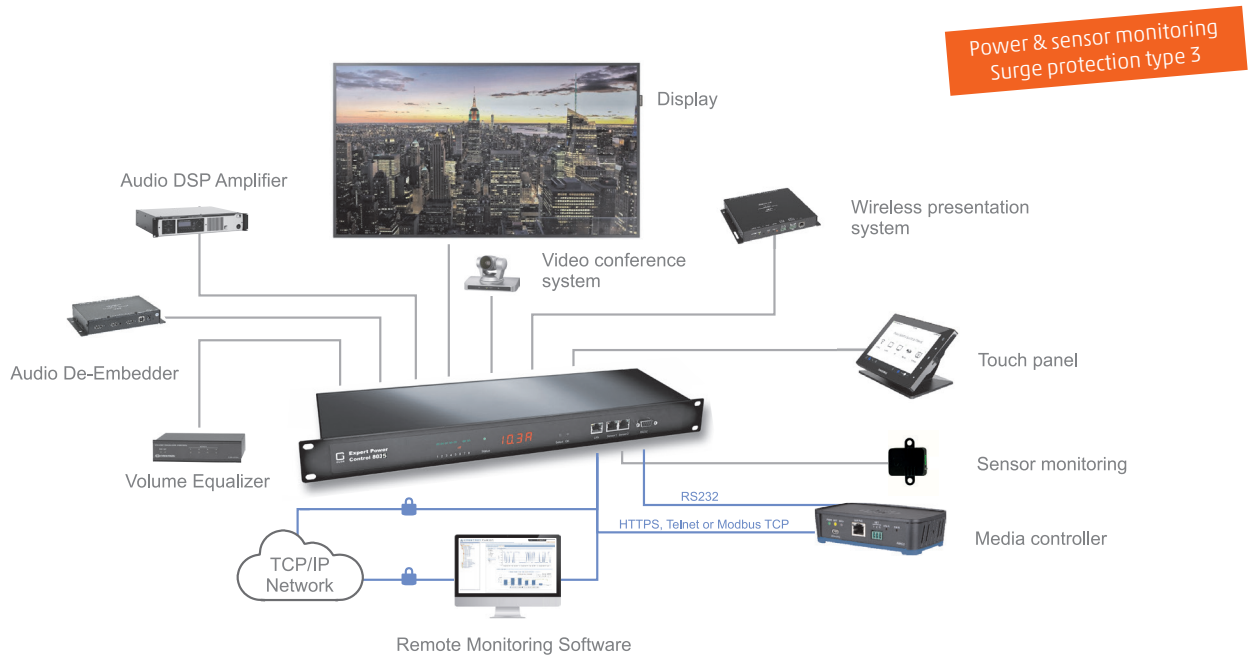
AV installations in conference rooms are easily managed and secured by **Expert Power Control 8031-6**

1 Individually 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 Unit metered

Integrated energy meters on device level help to ensure a sustainable operation of the infra-structure. In addition, the user receives warnings when fault currents occur. This allows preven-tive maintenance even before downtimes occur.

3 Sensor Monitored

Plug-n-play sensors enable monitoring of environment tempe-rature, humidity, air pressure and signal inputs (NO/NC). Critical system conditions can be antici-pated well in advance.

Features

- 8 power outelts 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 power monitoring: 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
- Surge protection prevents damage of device and of connected consumers (L-N, L/N-PE), status retrievable over network
- 2 interfaces for plug-n-play sensors for environmental monito-ring (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. 12 A, 110-220 V
- Power Ports: 8x IEC C13, 8x NEMA 5-15, max. 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. 95.24 oz
- 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
7-8031-1	Expert Power Control 8031-1	8 switchable IEC C13 outputs, unit metered, surge protection (SPD) type 3	110-220 V	12 A
7-8031-2	Expert Power Control 8031-2	8 switchable IEC C13 lock outputs, unit metered, surge protection (SPD) type 3	110-220 V	12 A
7-8031-6	Expert Power Control 8031-6	8 switchable outputs NEMA 5-15, unit metered, surge protection (SPD) type 3	110-220 V	12 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		