

## Switched and metered PDU with industrial grade DC power supply unit

new

Manage and secure all your different AV and IT consumers with one single AC/DC PDU

The *Expert Power Control 8291-1* is an AC/DC Power Distribution Unit (PDU) that combines a smart 19" distribution panel with a **high quality power supply**. The remote power switch allows responsible of AV infrastructure to rely on a compact 1 RU solution in order to **control and monitor their IT and media equipment**. 26 outlets on the rear side enable connections of all common voltages: IEC C13 for 230 V, terminal clamps for 24 V, 12 V and 5 V as well as USB. So servers, routers, projectors and other appliances find their matching socket on *Expert Power Control 8291-1*.

The power supply units of IT and AV devices often block valuable socket space. By connecting these consumers to the terminals of *Expert Power Control 8291-1*, **this lack of available space is solved**. Moreover, the integrated power supply unit is a high quality part of industry standard. So users do not have to worry about the weakest link in the chain: The often cheap and unreliable power supply units of electronic appliances are not required anymore.

Especially if connected media and network devices confront users with a frozen and unresponsive status, the new AC/DC power switch comes into play: An **instant or automatic reboot** through *Expert Power Control 8291-1* triggered onsite or from remote solves the critical situation promptly. Time and cost intensive support calls or even worse **service technician deployments are completely avoided**.

### Key Benefits

- ▶ 17 DC switchable power outlets with voltages of 24 V, 12 V and 5 V and 4 AC switchable power outlets
- ▶ Triple security feature: Short-circuit protection by eFuse per outlet, overvoltage protection type 3 and SSL
- ▶ Integrated failure-proof power supply unit (max. 300 W) with active power factor correction (PFC)
- ▶ Power cycling (reboot) of hung-up devices: automatic by watchdog, from remote or on-site
- ▶ Saving socket and rack space: DC power supply units of AV devices not required anymore, uses only 1 RU
- ▶ Prevention of down-times with power and residual current monitoring
- ▶ Monitoring of temperature, humidity and air pressure by plug-n-play cable sensors



Front panel of Expert Power Control 8291-1: Keep the full picture of your connected equipment zoo

### Features

- 21 Power Ports individually switchable directly on the device, via HTTPS, SNMP, command line tool and RS232 serial interface
- Integrated failure-proof power supply unit (max. 300 W), MTBF: around 1.8 mio operating hours
- Power monitoring of 5 V, 12 V and 24 V (Bank A-D)
- Maximum available DC current per port: 4 A
- Current segmentation of banks:  
5 V: max. 8,8 A, 12 V: max. 6 A, 24 V: max. 12,5 A
- Switching through programmable sensor thresholds
- Scheduled and event-based switching
- Self-healing feature: An individual watchdog (ICMP/TCP) for each Power Port automatically reboots in case of lock-up
- Metering of energy, current, power factor, phase angle, frequency, voltage and active / apparent / reactive power
- Each outlet protected by eFuses in case of short circuits
- Residual current metering type A
- A clearly visible LED display for port status, total current, IP address, sensor data and error reports
- Integrated overvoltage protection (SPD) type 3
- 2 interfaces for optional sensors for environmental monitoring (temperature, humidity and air pressure)
- RJ45 network connection and RS232 interface
- IPv6, SNMPv3, Telnet, Radius, ModbusTCP
- HTTP/HTTPS, e-mail (SSL, STARTTLS), DHCP, Syslog
- Access control via IP Access Control List
- Developed and manufactured in Germany



Rear panel of Expert Power Control 8291-1: Pick your choice of connectors and voltages for your AV devices



**230 V** (max. 10 A)  
4 connectors IEC C13

- PCs
- Servers
- Projectors
- TVs
- Audio receivers
- Amplifier
- Active speakers
- ...



**12 V OR 24 V** (max. 4 A)  
3 x 4 connectors terminal clamp

- Integrated access devices
- Routers
- Switches
- Digital Signage players
- Teleconferencing cams
- HDMI transmitter - receivers
- Soundbars
- ...



**5 V** (max. 3 A)  
5 connectors terminal clamp or USB type A

- Smart phones
- Tablets
- Smart cameras
- Displays
- External drives
- Power banks
- ...



Order Code	Product	Rear connectors
8291-1	Expert Power Control 8291-1	4 x IEC C13 (230 V), 3 x 4 x PTR multi-connector (12 V or 24 V), 5 x PTR multi-connector (5 V) or 5 x USB type A (5 V, no data transfer), power supply IEC C20 (max. 16 A, 230 V), Dimensions: LxHxD: 43.9 x 4.4 x 24.1 cm (without brackets), 1 RU

Order Code	Product	Feature
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