Switched & Metered DC Power Distribution Units

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 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), DHC, 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