Switched and outlet-metered PDU with industrial grade DC power supply

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

Avoid headaches due to lack of socket space

The *Expert Power Control 8291-2* 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 responsibles 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 110-230 V, terminal clamps for 24 V, 12 V and 5 V as well as USB. All DC current connections are even measured at socket level. So servers, routers, projectors and other appliances are managed, switched and metered securely by *Expert Power Control 8291-2*.

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 8291-2*, **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.

Front panel of Expert Power Control 8291-2: 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
- Each outlet protected by eFuses in case of short circuits
- Individual current metering per DC load output
- 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 port status, total current, IP address, sensor data and error reports
- Integrated surge protection (SPD) type 3
- 2 interfaces for plug-n-play sensors for environmental monitoring (temperature, humidity and air pressure)
- RJ45 network connection and RS232 interface
- IPv6, SNMPv3, Telnet, Radius, ModbusTCP, MQTT (3.1.1)
- HTTP/HTTPS, e-mail (SSL, STARTTLS), SSH, DHCP, Syslog
- Access control via IP Access Control List
- Developed and manufactured in Germany
- Low internal power consumption

Electrical Connections

- Power supply IEC C20 (max. 16 A, 110-230 V)
- 4 power ports IEC C13 (max. 10 A)
- 12 power ports industrial clamp, 12 V DC or 24 V dc (max. 4 A)
- Current distribution of the banks: 5 V (max. 8.8 A), 12 V (max. 6 A), 24 V (max. 12.5 A)
- 5 power ports industrial clamp or USB A (no data transfer), 5 V DC (max. 3 A)
- 1 Ethernet connector RJ45 (10/100 Mbit/s)
- 1 serial interface RS232 (Sub-D, 9-pin)
- 2 connectors (RJ45) for plug-&-play sensors

Technical Details

- Dimensions: 19-inches, 1 HU (LxWxH: 17.28 x 7.0 x 7.32 in.)
- Weight: approx. 155.2 oz
- Operating temperature: 32-122 °F
- Storage temperature: -4 - 158 °F
- Relative humidity: 0 - 95% (non-condensing environment)

GUDE Systems USA Inc.
405 Lexington Avenue, Suite 2601
New York 10174, USA

contact@gudeamerica.com
www.gudeamerica.com

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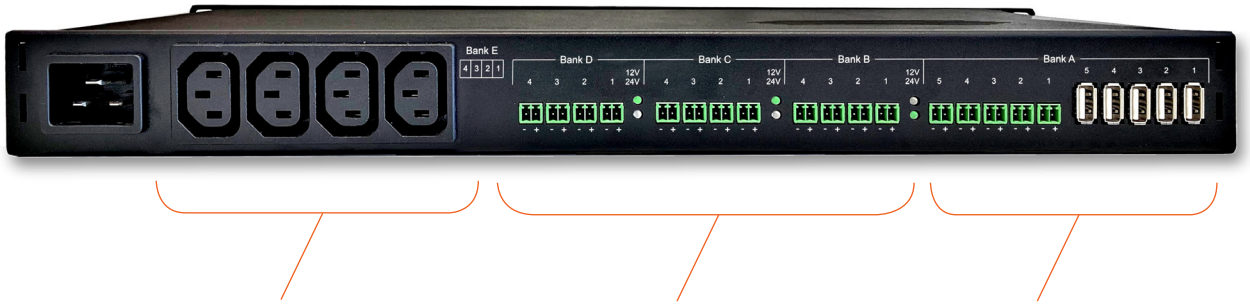
Key Benefits

- **17 DC** switchable power ports with voltages of **24 V, 12 V and 5 V and 4 AC** switchable power ports at **230 V**
- Triple security feature: Short-circuit protection by **eFuse** per outlet, **SPD 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
- **Saves sockets and rack space** (only 1 RU): DC power supply units for AV devices no longer required
- **IP Monitoring**: Easily integrate anywhere with API interface like REST API, HTTPS, SNMP, Telnet and MQTT
- **Precise load distribution** thanks to detailed **outlet-metering per DC connection**
- Avoidance of downtimes through **power and residual current monitoring**
- Monitoring of temperature, humidity and air pressure by available **plug-n-play sensors**

Rear panel of Expert Power Control 8291-2: Pick your choice of connectors and voltages for your AV devices



110-230 V (max. 10 A)

4x IEC C13

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

12 V OR 24 V (max. 4 A)

3x 4 terminal clamp

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

5 V (max. 3 A)

5x terminal clamp or USB type A

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

Order Code	Product	Features
8291-2	Expert Power Control 8291-2	4 x IEC C13 (110-230 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; DC outlet-metering; dimensions: LxHxD: 43.9 x 4.4 x 24.1 cm (without brackets), 1 RU
7205	Temp.,Humidity Sensor 7205	Plug-n-play sensor, RJ45 connector, -6°F to +176°F, 0-90% humidity
7206	Temp., Humidity, Air pressure Sensor 7206	Plug-n-play sensor, RJ45 connector, -6°F to +176°F, 0-90% humidity, 300-1100 hPa
7209	Temp.,Humidity, Signal Sensor 7209	Plug-n-play sensor, RJ45 connector, -6°F to +176°F, 0-90% humidity, 2 passive signal inputs
0804	IEC Extension Cable 0804	Extension cable for IEC C13 to C14, length: 118.1 in.
0871	Desk/Wall Bracket 0871	Accessories for mounting a 19-inch device under a tabletop or on a wall

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