

Press Release of GUDE Systems GmbH  
 Department: AV & IT technology, IT Security, Network/Energy Management,  
 Koeln, 01.10.2020  
 For immediate publication - at impression a copy is kindly requested.  
 The press release is also available at [www.gude.info/nc/unternehmen/news](http://www.gude.info/nc/unternehmen/news)

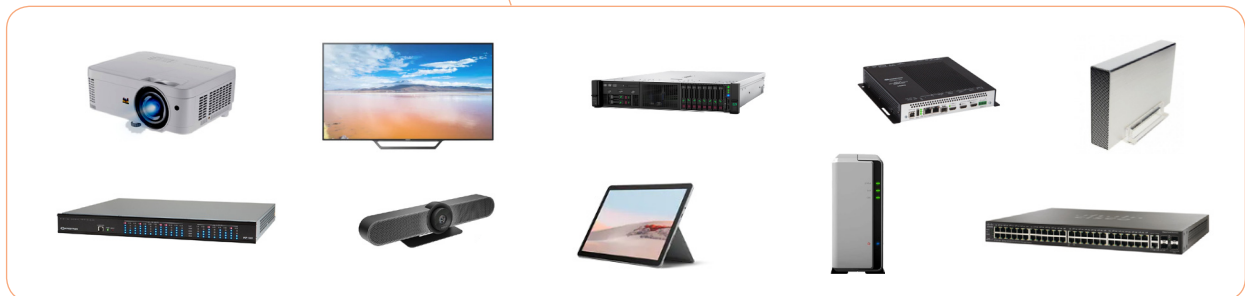
## Control and protection of AV and IT equipment with switchable AC/DC power distributor

### The new Power Distribution Unit (PDU) from GUDE allows control, energy measurement and monitoring of up to 21 connected consumers with AC and DC voltage

With the **Expert Power Control 8291-1**, GUDE Systems GmbH presents a power distribution system that is used in professional installations with direct current (DC) voltage requirements. The switchable LAN socket allows the connection of up to 21 AV and IT devices. Four different voltages can be operated: 17 switchable load outlets with DC voltages of 24 V, 12 V and 5 V and 4 switchable load outlets of 230 V (AC.) Due to the different connections on the back of the device (IEC C13, terminal clamp and USB type A) and the different supply voltages, a large number of AV and IT consumers can be connected. The integrated industrial power supply makes the often unreliable plug-in power supplies of the end devices superfluous. Thanks to its compact design in a stable metal housing, the PDU occupies only one height unit in 19-inch cabinets.



Front and rear panel of **Expert Power Control 8291-1**



The right connection and voltage for every AV and IT device: PCs, servers, projectors, TVs, displays, audio receivers, amplifiers, routers, switches, teleconference cameras, HDMI transmitter-receivers, tablets, external drives etc. can be connected to **Expert Power Control 8291-1**.

Once in operation, IT users benefit from the following advantages with the AC/DC power distributor:

- 1. Fail-safe:** Power-cycling (reboot) of connected devices helps applications to get back on their feet when they have hung up: Either automatically via watchdog monitoring or by remote access via the integrated web application. In addition, power and residual current monitoring prevents critical system states in the installation.
- 2. Operational safety:** Short-circuit fuses per output (eFuse) prevent damage to other loads. In addition, an integrated type 3 surge protection ensures greater operational safety.
- 3. Energy saving:** The integrated energy meters offer precise measurement of power consumption and enable the exploitation of energy saving potentials.

4. **Space saving:** The IP power distributor occupies only 1 height unit in the rack and allows the direct connection of many IT and AV devices thanks to the integrated power supply unit. The space-consuming plug-in power supply units of the individual end devices can be dispensed.
5. **Monitoring:** Monitoring of temperature, humidity and air pressure in the installation environment through additional cable sensors. This allows critical conditions to be avoided in advance through preventive measures.

### Features at a glance

- 21 load outlets individually switchable on the device or remotely via HTTPS and SNMP
- Remote monitoring and switching of connected consumers: event-based switching, remote start, programmable on/off sequences, automatic switch-on delay to limit switch-on currents
- Load outputs can be switched when preset sensor limit values are exceeded
- 17 switchable current outputs with DC voltages of 24 V, 12 V and 5 V (max. 4 A) and 4 switchable current outputs of 230 V AC (max. 10 A)
- Measurement of current, voltage, phase angle, power factor, frequency, active, apparent and reactive power
- Residual current monitoring (RCM type A)
- Fail-safe power supply unit integrated (max. 300 W)
- Increased protection through integrated over-voltage protection and eFuse per load outlet
- Location-independent access via web interface
- Easy-to-read LED display for displaying total current, IP address, sensor values and error messages
- Environmental monitoring thanks to optionally available sensors (temperature, humidity, air pressure)
- Generation of alarms and messages (e-mail, syslog and SNMP traps)
- Support of IPv6, SNMPv3, SSL, Telnet, Radius and Modbus TCP
- Easy integration into AV control systems
- Low consumption
- Developed and produced in Germany

Application areas	AV installations, media and IT racks, corporate networks
Mounting	19 inch network cabinets, 1 RU
Dimensions	LxHxD: 43.9 x 4.4 x 24.1 cm (without brackets)
Available accessories	External sensors (temperature, humidity, air pressure), cable holder, desk/wall mount, IEC extension cable,

### The company

GUDE is a family-run manufacturer of innovative ICT equipment for over 30 years. The company's products aim at optimizing and enhancing ICT, AV and industrial infrastructure that is typically encountered in network, server or media racks. The product portfolio includes Power Distribution Units (PDU), LAN sensors and radio clock systems. All devices are developed and manufactured in Germany to meet the quality requirements that customers place on reliable IT infrastructures.

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