

## Smart IP socket strips for LED panels: Expert Power Control 8226/8316

Intelligent control of LED walls with switchable Power Distribution Units (PDU)

### 3 major requirements for LED panels

#### 1 Addressing high inrush currents

Any operator of LED walls knows the problem: The high inrush currents at power-up lead to unwanted current peaks in the installation - with the corresponding consequences. Upstream PDUs solve this problem through integrated switching routines. These ensure a sequential switching of the panel elements. Increased inrush currents belong to the past now. The LED modules can be selectively power cycled via media controls of well-known manufacturers within the network.



LED panel

#### 2 Increasing energy efficiency for green building and green AV

With smart IP sockets from GUDE, the power consumption of your AV installation can be effectively reduced: the collective switching off of the connected consumers helps to ensure sustainable operation. Programmed schedules allow the power hungry LED elements to be switched off at night or on weekends. This not only lowers the electricity expenses, but also leads to an increased lifetime of the LED modules. Savings lead to an amortization already after 6 months.



LED wall in shopping mall

#### 3 Enhancing operational safety through environmental monitoring

In addition to the reliable power supply, the IP socket strips with two integrated sensor connections provide the ability to monitor ambient temperature and humidity on the spot. System-critical states are detected early via optional sensors and reported to the user as an alarm by e-mail. Furthermore, configurable sensor thresholds mitigate the possibility of an emergency through automatically triggered switching operations. Thanks to integrated energy meters, it is possible to monitor the energy consumption for each power connection individually. In addition to the network-based remote access, the user can easily control the smart PDU via iOS or Android app.



LED panel in conference room

# Expert Power Control 8226/8316

with programmable power-up delays

8-/12-fold switched IP socket strip with integrated current metering



Expert Power Control 8226-1: LAN and sensor ports on front, 12 IEC ports on rear panel

## Features

- 8 or 12 Power Ports individually switchable directly on the device, via HTTPS, command line tool and RS232 serial interface
- Status and Power-up delay (0...9999 seconds) adjustable individually for each Power Port after power blackout
- Start-up peaks through simultaneous port switching prevented by automatic latency time of 1 second
- Programmable power cycling
- 2 independent power inputs of 230 V for the same or different phases (8226-1)
- 2 energy meters per power outlet, one meter continuously, the other resettable
- Metering of energy, current, power factor, phase angle, frequency, voltage and active / apparent / reactive power
- Clearly visible LED display for total current, IP address, sensor data and error reports
- 8 or 12 channel watchdog, an individual watchdog (ICMP/TCP) can be assigned for each Power Port
- 2 interfaces for optional sensors for environmental monitoring (temperature, humidity and air pressure)
- Event and schedule based switching by set sensor thresholds
- Comfortable configuration by web browser, Windows or Linux tool
- Firmware update via Ethernet during operation
- IPv6-ready, TLS 1.0, 1.1, 1.2
- HTTP/HTTPS, e-mail (SSL, STARTTLS), DHCP, Syslog
- SNMPv1, v2c, v3 (Get/Traps)
- Radius and Modbus TCP protocol supported
- Configuration and control over Telnet
- Access control via IP Access Control List
- Android and iOS app *Gude Control* allows access from anywhere
- Low power consumption
- Developed and manufactured in Germany



Expert Power Control 8316-1  
8 Schuko ports, ideal for vertical mounting

## Electrical Connections

- Power supply IEC C20, max. 16 A (two-fold for 8226-1)
- 8226-1: 12 Power Ports IEC C13, max. 10 A
- 8316-1: 8 Power Ports safety socket CEE 7/3 (Schuko), max. 16 A
- 8316-2: 8 Power Ports IEC C13, max. 10 A
- Ethernet connector RJ45 (10/100 Mbit/s)
- Serial interface RS232 (Sub-D 9-pin)
- 2 sensor interfaces (RJ45) for optional sensors

## Technical Details

- 8226: 19 inch, 1 RU, LxHxD: 43.9 x 4.4 x 19.5 cm
- 8316: Case for vertical rack mounting (0 RU), LxHxD: 69x6x7 cm
- Sturdy housing made of powder-coated steel plate
- Weight: ca. 2.8 kg
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)

Order code	Product	Feature	Operating Voltage	Max. Current
8226-1	Expert Power Control 8226-1	2 x 6 Power Ports IEC C13, energy metering per bank and load outlet	230 V	2x 16 A
8316-1	Expert Power Control 8316-1	8 Power Ports safety socket CEE 7/3, energy metering per load outlet	230 V	16 A
8316-2	Expert Power Control 8316-2	8 Power Ports IEC C13, energy metering per load outlet	230 V	16 A
7105	Temp./Humidity Sensor 7105	Cable sensor with RJ45 plug, -20°C to +80°C, 0-90% humidity		
0804	IEC Extension Cable 0804	Extension cable for IEC C13 to C14, length: 3 m		



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