

Expert PDU Energy 8311 Series



7- or 20-fold metered PDU with integrated current metering and monitoring



Expert PDU Energy 8311-1
7 outlets safety socket CEE 7/3



Expert PDU Energy 8311-13
4 outlets safety socket CEE 7/3 and 16 IEC C13

Features

- 7 or 20 load outlets on front panel
- Metering of energy, current, power factor, phase angle, frequency, voltage and active / apparent / reactive power
- 2 energy meters per phase, one meter continuously, the other resettable
- Residual current metering type A (**8311-2, -14, -16**)
- Illuminated two-line LCD display
- Interface for optional sensors for environmental monitoring (temperature, humidity and air pressure)
- Easy configuration by web browser, Windows or Linux tool
- Firmware update via Ethernet during operation
- IPv6-ready
- HTTP/HTTPS, e-mail (SSL, STARTTLS), DHCP, Syslog
- SNMPv1, v2c, v3 (Get/Traps)
- TLS 1.0, 1.1, 1.2
- Radius and Modbus TCP protocol supported
- Configuration and control via Telnet
- Low internal power consumption
- Developed and manufactured in Germany

Electrical Connections

- Power supply safety socket CEE 7/4, max. 16 A)
- Load outlets: 7 x safety socket CEE 7/3 (**8311-1, -2**), 4 x safety socket CEE 7/3 and 16 x IEC C13 (**8311-13, -14**), 4 x IEC C19 and 16 x IEC C13 (**8311-15, -16**)
- Ethernet connector RJ45 (10/100 Mbit/s)
- Sensor interface (RJ45) for optional sensor

Technical Details

- 19 inch, 1 rack unit
- LxHxD (without brackets): 43.4 x 4.4 x 4.4 cm (**8311-1, -2**)
87 x 4.4 x 4.4 cm (**8311-13, -14, -15, -16**)
- Weight: 1.5 kg (**8311-1, -2**) / 2.5 kg (**8311-13, -14, -15, -16**)
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)

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|---|--|
| ☒ IPv6 | ☒ SNMPv3 |
| ☒ HTTPS | ☒ Telnet |
| ☒ SSL | ☒ Modbus TCP |

Order Code	Product	Feature	Operating Voltage	Max. Current
8311-1	Expert PDU Energy 8311-1	Energy metering, 7 x safety socket	230 V	16 A
8311-2	Expert PDU Energy 8311-2	Energy metering, 7 x safety socket, residual current metering type A	230 V	16 A
8311-13	Expert PDU Energy 8311-13	Energy metering, 4 x safety socket, 16 x IEC C13	230 V	16 A
8311-14	Expert PDU Energy 8311-14	Energy metering, 4 x safety socket, 16 x IEC C13, residual current metering type A	230 V	16 A
8311-15 new	Expert PDU Energy 8311-15	Energy metering, 4 x IEC C19, 16 x IEC C13	230 V	16 A
8311-16 new	Expert PDU Energy 8311-16	Energy metering, 4 x IEC C19, 16 x IEC C13, residual current metering type A	230 V	16 A
7101	Temperature Sensor 7101	Cable sensor with splash-proof sensor head (IP64), RJ45 connector, -20°C to +80°C, cable ca. 2.3 m		
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				
7201	Temperature Sensor 7201	Box case with RJ45 socket, -20°C to +80°C		
7202	Temp./Humidity Sensor 7202	Box case with RJ45 socket, -20°C to +80°C, 0-90% humidity		



GUDE Systems GmbH
Von-der-Wettern-Str. 23
51149 Koeln • Germany

mail@gude.info
www.gude.info
shop.gude.info

T +49.221.912 90 97
F +49.221.912 90 98

