

# Expert PDU Energy 8311 Series new



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

IPv6, SSL,  
SNMPv3 & Telnet



**Expert PDU Energy 8311-1**  
7 load outlets safety socket



**Expert PDU Energy 8311-13**  
4 load outlets safety socket and 16 IEC C13

Alternative outlet and power supply connectors available upon request

## 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** / **8311-14**)
- 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

- 1 power supply (safety socket connector, max. 16 A)
- Load outlets: 7 x safety socket or 4 x safety socket and 16 x IEC C13
- Ethernet connector RJ45 (10/100 Mbit/s)
- Sensor interface (RJ45) for optional sensor

## Technical Details

- 19 inch, 1 rack unit
- LxHxD: 43.4 x 4.4 x 4.4 cm (without brackets) (**8311-1** / **8311-2**)
- LxHxD: 87 x 4.4 x 4.4 cm (without brackets) (**8311-13** / **8311-14**)
- Weight: 1.5 kg (**8311-1** / **8311-2**) / 2.5 kg (**8311-13** / **8311-14**)
- 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
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
7101	Temperature Sensor 7101	-20°C to +80°C		
7102	Temp./Humidity Sensor 7102	-20°C to +80°C / 0-90% humidity		
7103	Air pressure/Temp./Humidity Sensor 7103	300-1100 hPa / -20°C to +80°C / 0-90% humidity, cable ca. 2,3 m		
7201	Temperature Sensor 7201	-20°C to +80°C		
7202	Temp./Humidity Sensor 7202	-20°C to +80°C / 0-90% humidity		
7203	Air pressure/Temp./Humidity Sensor 7203	300-1100 hPa / -20°C to +80°C / 0-90% humidity		



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