E3METER™ Intelligent Power Strip
RN1220 Datasheet

General Description

E3METER® intelligent power distribution strips (IPS) are the core element of our innovative monitoring system. They provide valuable data for both data center operators and clients: accurate energy consumption logging enables operators to offer usage based energy billing. A bright local display gives real-time feedback on power consumption which simplifies for example load balancing during commissioning of new equipment. Alarms make early detection of overload and other abnormal situations possible which helps to prevent power outages.

Data transfers between E3METER® IPS and a central E3METER® Concentrator use reliable narrowband powerline communication (PLC) technology which avoids the need for extra cabling. All measured values can be accessed via standard SNMP.

Two dedicated extension ports can be used to measure temperature and humidity through E3METER® remote sensors.

Features

- Non-Intrusive voltage, current and frequency measurement through current transformer
- Energy and power measurements (active, reactive, apparent, power factor)
- 1% accuracy (IEC 1036 Class 1)
- Factory calibrated
- Alarms
- Internal temperature sensor
- 2x extension ports for external temperature/humidity sensors
- Data logging in E3METER® Concentrator
- Data access by 3rd-Party Tools via SNMP (through E3METER® Data Concentrator)
- Reliable Powerline Communication (Cenelec B, FCC or ARIB)
- 10/100 Mbps Fast Ethernet (HTTP, SNMP, Telnet, NTP)
- 6x C13, 2x C19 outlets (16 A rms)

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Physical

Length	445 mm (19” rack mounting brackets included)
Height	44 mm (1U)
Depth	51 mm
Weight	530 g (without cable)

AC Input

Nominal Input Voltage	230 V rms
Max. Input Current	16 A rms
Input Frequency	50 - 60 Hz
Input Cable/Plug	7m (other lengths on request), 1 phase, Typ23

AC Output

Nominal Output Voltage	230 V rms
Max. Output Current	16 A rms
Output Connections	6x C13, 2x C19
Integrated Filter/Switch	No (optional on request)

Communication

Powerline	Reliable narrowband Powerline Communication (Cenelec B, FCC or ARIB)
Ethernet	10/100 Mbps Fast Ethernet, RJ-45 connector (HTTP, SNMP, Telnet, NTP)
Serial	Console on left RJ12 connector, 115’200 bps, 8n1

Display

Technology	TFT full graphical color display, 320x240
Refresh Rate	1 Hz
Screen Saver	Display turned-off automatically after 15 minutes

Sensors

Internal	Temperature
External	2 extension ports for temperature and humidity sensors

Measurements / Alarms

Accuracy	[%]		1%
P	[W]		Real power
Q	[VAR]		Reactive power
S	[VA]		Apparent power
Ep	[kWh]		Real energy
Eq(C)	[kVARh]		Reactive energy (Capacitive)
Eq(L)	[kVARh]		Reactive energy (Inductive)
Urms	[V]		Line voltage
Irms	[A]	Alarm	Output current (combined for all 6 outlets)
Upk	[V]	Alarm	Peak line voltage
f	[Hz]	Alarm	Line frequency
PF	N/A		Power factor
Ti, T1, T2	[°C]	Alarm	Internal temperature and values from external temperature sensors
H1, H2	[%]		Humidity values from external sensors

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