



General Description

The E3METER® Data Concentrator stands at the center of our innovative monitoring system. It aggregates data from up to 400 E3METER® intelligent power strips (IPS), implements logging functionality and makes data available on its Fast Ethernet interface via HTTPS and SNMP.

Data transfers between E3METER® IPS and the E3METER® concentrator use reliable narrowband powerline communication (PLC) technology which avoids the need for extra cabling.

The E3METER® concentrator's small form factor facilitates installation in any 19" Rack (standard model) or power distribution panel (optional, on request).

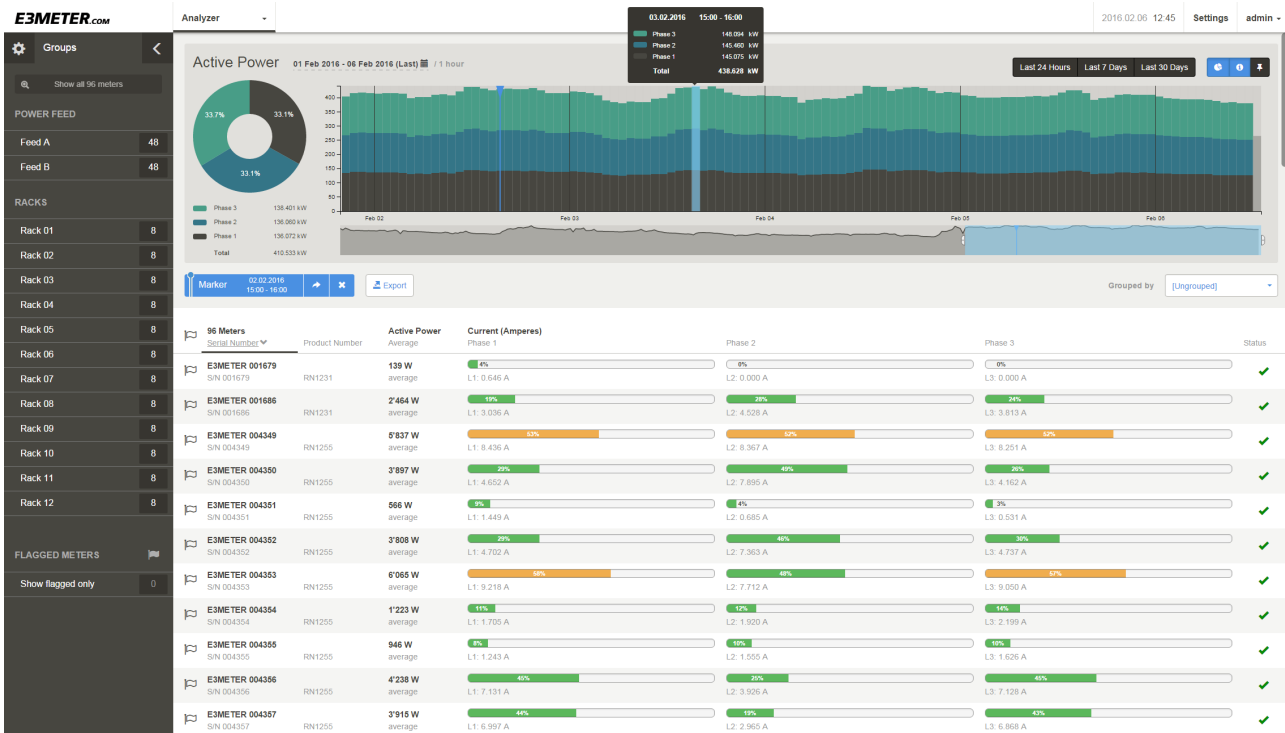
Industrial grade components and the fact that there are no moving parts guarantee minimal maintenance effort.

E3METER® - A true plug-and-play metering solution, out of the box. Power management, reporting, billing, alarming and provisioning has never been easier for the Datacenter operator, technician and customer.

Features

- Control and monitor up to 400 E3METER® Intelligent Power Strips / Intelligent CEE Boxes on 2 x 3 phases
- Built-in data logging and visualization
- Pre-loaded with E3METER® Monitoring Software
- Free upgrades (no subscription, no recurring fees)
- Extended Features with simple, perpetual licensing model
- SNMP interface for 3rd-party monitoring systems
- Reliable Powerline Communication (Cenelec B, FCC or ARIB)
- 10/100 Mbps Fast Ethernet
- 19" Rack mountable, 1U (ultra-small panelboard version optional)
- Low power consumption (< 3 W)
- No moving parts (no fan, industrial grade flash storage)
- Serial port for maintenance
- OLED Display





Logging / Alarms

The following measurements from all connected E3METER® intelligent power strips and sensors are logged in a local database and at the same time made available through HTTPS and SNMP:

| | | | |
|------------|---------|-------|-------------------------------------------------------------------|
| P | [W] | | Real power |
| Q | [VAR] | | Reactive power |
| S | [VA] | | Apparent power |
| Ep | [kWh] | | Real energy |
| Eq | [kVARh] | | Reactive energy |
| Es | [kVAh] | | Apparent energy |
| Urms | [V] | | Line voltage |
| Irms | [A] | Alarm | Output current |
| 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 |

Physical (19" Version)

| | |
|----------|--------------|
| Width | 483 mm |
| Depth | 232 mm |
| Height | 1U (44.5 mm) |
| Weight | 2000 g |
| Mounting | 19", 1U |

AC Supply (redundant)

| | |
|-----------------------|----------------------------|
| Nominal Input Voltage | 230 / 400 Vrms, 2x 3-phase |
| Input Socket Type | 2x Wieland "GST1815F" |
| Input Plug (included) | 2x Wieland (92.953.4053.1) |
| Power Consumption | < 3 W (only on phase 1) |

Communication

| | |
|-----------|----------------------------------------------------------------------|
| Powerline | Reliable narrowband Powerline Communication (Cenelec B, FCC or ARIB) |
| Ethernet | 10/100 Mbps Fast Ethernet RJ-45 connector |
| Serial | Console, 115'200 bps, 8n1 |

