

TrendPoint Enkapsis PQM with Waveform Capture

Enkapsis is both a standalone 3-phase power quality meter (PQM) and the hub for TrendPoint's branch circuit accessory modules (BCPM 2.0, iBCPM 2.0, Bus 2.0). It can monitor loads up to 6000A with utility grade system accuracy, delivers a complete range of power quality metrics (vTHD, iTHD), and provides waveform capture functionality without the need for additional proprietary software. Enkapsis can also maintain multiple, concurrent sessions with EPMS, DCIM or BMS applications via the MODBUS, SNMP and BacNet IP protocols. Dual ethernet ports allow multiple Enkapsis meters to be daisy-chained in a single run.



KEY FEATURES

ACCURACY

1% end to end system accuracy
*.5% or .5s% system accuracy available.

WEB INTERFACE

For configuration and live data access.

SUPPORTED PROTOCOLS

ModBus TCP/IP, SNMP, BACnet.

DATA STORAGE & LOGGING

8gb Class 10 SD card included.

ALARMS

Onboard user configurable alarms and alerts.

SAFETY

UL/CE listed to UL 508A of the latest applicable safety standards.

POWER QUALITY ANALYTICS

Waveform Capture and Voltage and Current THD.

A Great Fit For Any System

Thanks to open protocols, the TrendPoint Enkapsis™ is easily integrated into any data center or building management information system. Gateways or additional hardware are not required, the platform offers all standard forms of data connectivity.

The on-board environmental communications port enables 1-wire sensors to detect abnormal temperature and humidity conditions so adjustments can be made before problems occur.

FEATURES

- Accuracy 1% end to end system accuracy
*.5% or .5s% system accuracy available
- Web interface - for configuration and live data access
- Communications - ModBus TCP/IP, SNMP, BACnet, RS-485
- Data Storage & Logging - 8gb Class 10 SD card
- Alarms- onboard user configurable alarms and alerts
- Safety - UL/CE or listed to UL 508A



ENKAPSIS MEASUREMENTS:

- Accumulated Real Energy (kWh) per phase and total of all phases
- Accumulated Reactive Energy (kVARh) and Apparent Energy (kVAh) per phase and totals for all phases
- Instantaneous Real (kW), Reactive (kVAR) and Apparent Power (kVA), by phase and in total
- Current (amps) per phase and total of all phases
- Phase-to-phase voltage per phase and average of all phase pairs
- Phase-to-neutral voltage per phase and average of all phases
- Power factor per phase and average of all phases
- Frequency
- Voltage and Current Waveform capture
- Voltage and Current harmonics
- Current and Voltage Harmonic Magnitudes & Angles (per phase)
- Voltage THD
- Current THD
- Neutral Leak Detection

Electrical Parameters:

TYPE	SPECIFICATIONS
Input Reference Voltage	[120] [208] [380] [400] [415] [480] [600] VAC, single phase (2) wire plus ground, three (3) wire plus ground or four (4) wire plus ground
Input Frequencies	50/60 Hz
24 VDC Power Supplies Input Voltage	100vac-240vac or 264v-575v to 24vdc output
CT Support	75 Amp to 6000 Amp with internal burdened resistor and 250mVac signal. (No shorting blocks required)
CT Options Available	Solid-core, Split-core or Rowgowski coil type current transformers that have a max voltage of 600V. The CT's shall be accurate from 1 - 100% of the range and be factory calibrated to ensure system accuracy.

Environmental Requirements:

TYPE	SPECIFICATIONS
Operating Temperature	-20°C to 60°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5% to 90% non-condensing
Maximum Operating Altitude	2,000 meters
Non-Operating Altitude	15,000 meters
Noise Level	<65dba at six feet from the PQM

