

# EnerSure® ENKAPSIS™

Combines PQM with  
Waveform Capture In One

## EASY-TO-USE DEVICE

TrendPoint's EnerSure® Enkapsis is a three phase power quality meter (PQM) that delivers highly accurate power metrics for a complete picture of your facility's power infrastructure. The Enkapsis provides utility-grade amps, volts, power factor, THD, kW, and kWh data as a standalone PQM and as the base for the entire suite of EnerSure® module devices, which include the EnerSure® BCPM2.0, EnerSure® iBCPM, and EnerSure® Bus.



### FEATURES

VOLTAGE AND CURRENT TOTAL  
HARMONIC DISTORTION (THD)

VOLTAGE AND CURRENT  
WAVEFORM CAPTURE

UTILITY REVENUE GRADE 1.0%  
ACCURACY (END-TO-END)

TEMPERATURE AND HUMIDITY  
MONITORING CAPABILITIES

DATA AND EVENT LOGGING

### Platform Metering™

Trendpoint's EnerSure® modules can be used to provide utility grade data down to the branch circuit on busway systems, panelboards, RPPs, PDUs, switchgear, and distribution panels. The EnerSure® platform simplifies installation, integration, and operation of power monitoring deployments by extending a common chipset, user interface, firmware, and software driver across all of our EnerSure® module devices. It is also capable of residing on MODBUS, SNMP, and BACnet simultaneously with a fixed set of registers.



EnerSure® iBCPM



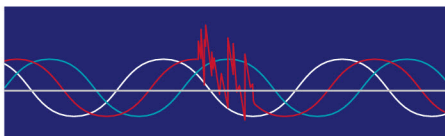
EnerSure® Bus



EnerSure® BCPM2.0

## THE NEW STANDARD

TrendPoint's EnerSure® Enkapsis sets a new standard for power quality meters with functionality that extends beyond harmonic data provided by traditional power meters with the added capability of triggering and retrieval of voltage and current waveforms.



WAVEFORM CAPTURE

Enkapsis Waveform Capture capabilities provide a visual representation of power consumption and power quality events in the critical facility.

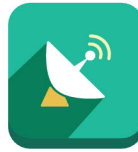


DATA LOGGING

Enkapsis supports 9 data logs and 1 event log, recording 120 data points at intervals as fast as 30 seconds. These 10 logs can be configured for all data points available for any of the 120 circuits it supports.



POWER QUALITY



COMMUNICATIONS



ENVIRONMENTAL



WAVEFORM CAPTURE

## Enkapsis Product Specifications

### Enkapsis Power Quality Meter Electrical Parameters:

Type	Specifications
Voltage Input	347 V <sub>AC</sub> L-N, 600 V <sub>AC</sub> L-L (RMS); CAT III IEC 61010-1
Current Input	20 - 10,000A (0-250mV <sub>AC</sub> CT output)
Frequency	50/60 Hz
Max Power	4W
Power Supply Requirements <sup>1</sup>	24V <sub>DC</sub> (15W) Internal/ External power supply options available
Safety	Conforms to ANSI/UL Standard 916 & IEC 60950-1
1. Control Power provided by V <sub>ker</sub>	

### Enkapsis Power Quality Meter Communications:

Type	Specifications
RS-485 Serial Communication Port	Number of Ports: 1 Protocols: Modbus RTU, Modbus Master, DNP 3.0, GPS, EtherGate, ModemGate. Data rates: 115k bps
10/100mbps Ethernet Port	Number of Ports: 2 Protocols: TCP/IP, Modbus, SNMP 10BASE-T, 100BASE-TX: via RJ45 connector
USB Port	2 (Port 1 is a charging port)
Environmental Port	Number of Ports: 1 Protocol: Serial 1-wire
Bus Port	TrendPoint bus port for communication with the EnerSure® Bus, BCPM2.0, and iBCPM products

### Enkapsis Power Quality Meter Measurement Specifications<sup>1</sup>:

Measured Parameters <sup>2</sup>	Accuracy
Voltage (L-L, L-N)	±1% (Tested to IEC 62053-21)
Current (Per Phase)	±1% (Tested to ANSI C12.1)
Power Factor	±0.3% (Tested to IEC 62053-21)
Power (Real, Reactive, Apparent)	IEC 62053-22 Class 0,5
Energy (Real, Reactive, Apparent)	IEC 62053-22 Class 0,5
Voltage Total Harmonic Distortion (vTHD)	±0.5% (Tested to IEC 62053-21)
Current Total Harmonic Distortion (iTHD)	±0.5% (Tested to IEC 62053-21)
1. All accuracy specifications are inclusive of the Current Transformers. 2. Provides Average values between polling cycle.	

### Enkapsis Power Quality Meter Features and Options:

Type	Standard	Optional
<b>Metering</b>		
Power & Energy Metering	X	
<b>Power Quality</b>		
Harmonics Monitoring	X	
Harmonics: Individual, Even, Odd, Up to		45th
Sampling Rate (Samples per Cycle)		133
<b>Logging &amp; Recording</b>		
Memory		4GB
Waveform Logging		X
Waveform Capture Duration (cycles)		6
Waveform Capture Size		1.8MB
Event Logs		1
Data Logs		9
Logging Rate		30 second intervals
Data Type		.CSV from web UI
GPS time synchronization	X	



508A  
INDUSTRIAL  
CONTROL PANEL  
FABRICATOR