

EnerSure® BCPM2.0

Branch Circuit Power Meter, Evolved

24 and 42-circuit Power Quality Branch Circuit Monitoring

TrendPoint's EnerSure® BCPM2.0 is the next generation of branch circuit monitoring - delivering utility grade power monitoring combined with power quality metrics for each branch circuit. The EnerSure® BCPM2.0 works with the EnerSure® Enkapsis to provide waveform capture, data logging, and full ethernet communications.



FEATURES

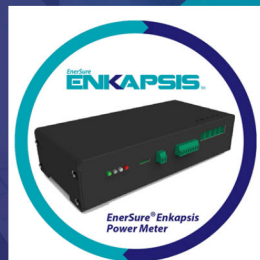
VOLTAGE AND CURRENT TOTAL HARMONIC DISTORTION (THD)

VOLTAGE (GENERATED BY ENKAPSIS) AND CURRENT WAVEFORM CAPTURE

UTILITY REVENUE GRADE 1% ACCURACY (END-TO-END)

DATA AND EVENT LOGGING

COMBINE MULTIPLE 24 AND 42 CIRCUIT MODULES FOR A 24, 42, 66, 84, OR 108 CIRCUIT CONFIGURATION (MAX OF 120 CIRCUITS)



EnerSure® Enkapsis



EnerSure® iBCPM



EnerSure® Bus



EnerSure® BCPM2.0

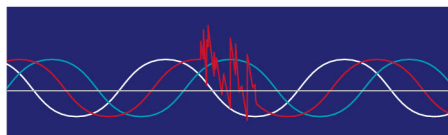
Platform Metering™

Trendpoint's EnerSure® Enkapsis is the base for the entire suite of EnerSure® module devices that include the BCPM2.0, Bus, and iBCPM). Each module 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.

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.

EnerSure is covered under United States Patents 6,622,097, 7,039,532 and 7,263,450.



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EnerSure® Enkapsis



EnerSure® BCPM2.0
(42 Circuit Shown)

Daisy chain
multiple BCPM2.0s
up to 120 circuits

EnerSure® BCPM2.0 Product Specifications

EnerSure® Platform Measurement Specifications¹:

Measured Parameters ²	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 Electrical Parameters:

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

EnerSure® Platform Communications:

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

EnerSure® Platform Features and Options:

Type	Standard	Optional
Metering		
Power & Energy Metering	X	
Power Quality		
Harmonics Monitoring	X	
Harmonics: Individual, Even, Odd, Up to		45th
Sampling Rate (Samples per Cycle)		133
Logging & Recording		
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	



ANSI C12.1
IEC 62053 21

