

## Enkapsis Bus 2.0 Tap Energy Monitoring

The TrendPoint Bus 2.0 is built on the TrendPoint Enkapsis™ platform, which provides Power Quality Analysis with waveform capture, voltage and current THD, and true utility-grade accuracy metrics for amps, volts, power factor, kW, and kWh. Each TrendPoint Bus 2.0 unit can monitor either 4 or 8 circuits and supports 120/208 V, 240/416V, 230/400V and 277/480V busway systems. The TrendPoint Bus 2.0 unit supports standard CT sizes from 75 to 6000 amps all from the same board. It also provides environmental monitoring for temperature and humidity via 1 wire add on sensors sold separately.

Combine up to 48 4-circuit tap cards, 24 8-circuit tap cards, or any combination of the two types of tap card units, totaling up to a maximum of 192 circuits in a single chain.



## 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.

### ALARMS

Onboard user configurable alarms and alerts.

### SAFETY

UL/CE listed to UL 508A.

### POWER QUALITY ANALYTICS

Waveform Capture and Voltage and Current THD.

## The New Standard

The Enkapsis Platform's flexible design is ideal for today's environment of constant additions, supports continual moves, and location adjustments. It's design allows for easy installation, as well as simple integration and operation. Stocked with a common chipset, web based UI, and upgradable firmware, the Enkapsis Platform delivers a high quality power metering solution.

### FEATURES



- 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
- Data Storage & Logging - 8gb Class 10 SD card
- Alarms- onboard user configurable alarms and alerts
- Safety - UL/CE listed to UL 508A
- 1 Wire temp/humidity sensor input
- 7 segment display of card address or serial number

### BUS2.0 MEASUREMENTS:

- Current per branch and sum of all phases
- Energy (kWh) per branch and sum of all phases
- Real power (kW) per branch and sum of all phases
- Apparent Power (kVA) per branch and sum of all phases
- Voltage and Current Waveform Capture
- Neutral Leak Detection
- Voltage Line-to-Line and average
- Frequency
- Voltage THD
- Current THD
- Power factor (signed, to show leading or lagging current), per branch and average of all phases for multi-phase logical circuits.

### 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

