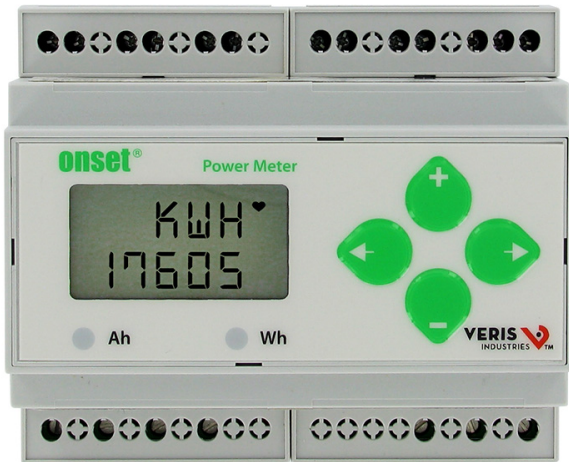


T-VER-E50B2

## E50B2 Power & Energy Meter Sensor

Discontinued

Build better energy efficiency and power management with the E50B2 Power & Energy Meter; simple to deploy, integrates with HOBO RX, UX, U30, ZW, H22, and H21 data loggers.



### Supported Measurements

AC Voltage, Amp Hour (Ah), Amps (A), Kilowatt Hours (kWh), Kilowatts (kW), Power Factor (PF), Volt-Amp Reactive, Volt-Amp Reactive hour, Volt-Amps (VA), Volts (V), Watt Hours (Wh), Watts (W)

### Features

- Measures Power Factor (PF), Reactive Power (VAR), Watt Hours (Wh) and more.
- Range: 90-600VAC – Wye or Delta configurations
- Accuracy: ANSI 12.20 0.5% accuracy, IEC 62053-22 Class 0.5S
- Compatible with CTs from 5 to 32000A (333mV output)
- Bright backlit LCD
- UL listed, CE, California CSI Solar, ANSI C12.20

### Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Onset Computer Corporation  
470 MacArthur Boulevard  
Bourne, MA 02532

Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

## E50B2 Power & Energy Meter Sensor (T-VER-E50B2) Specifications

<b>Measurement Accuracy:</b>	
<b>Real Power and Energy:</b>	IEC 62053-22 Class 0.5S, ANSI C12.20 0.5%
<b>Reactive Power and Energy:</b>	IEC 62053-23 Class 2, 2%
<b>Current:</b>	0.4% (+0.015% per °C deviation from 25°C) from 5% to 100% of range; 0.8% (+0.015% per °C deviation from 25°C) from 1% to 5% of range
<b>Voltage:</b>	0.4% (+0.015% per °C deviation from 25°C) from 90V (L-N) to 600VAC (LL)
<b>Sample Rate:</b>	2520 samples per second
<b>Data Update Rate:</b>	1 sec
<b>Type of Measurements:</b>	True RMS up to the 21st harmonic 60 Hz, One to three phase AC system
<b>Input Voltage Characteristics:</b>	
<b>Measured AC Voltage:</b>	Minimum 90VL-N (156VL-L) for stated accuracy UL Maximums: 600VL-L (347VL-N) CE Maximums: 300VL-N (520V L-L)
<b>Metering Over Range:</b>	+20%
<b>Impedance:</b>	2.5 M $\Omega$ ? (L-N)/5 M $\Omega$ ? (L-L)
<b>Frequency Range:</b>	45 to 65 Hz
<b>Input Current Characteristics:</b>	
<b>CT Scaling:</b>	Primary: Adjustable from 5 A to 32,000 A
<b>Measurement Input Range:</b>	0 to 0.333VAC or 0 to 1.0VAC (+20% over-range)
<b>Impedance:</b>	10.6k $\Omega$ ? (1/3 V mode) or 32.1k $\Omega$ ? (1 V mode)
<b>Output:</b>	
<b>Alarm Contacts:</b>	N.C., static output (30VAC/DC, 100mA max. @ 25°C, derate 0.56mA per °C above 25°C)
<b>Real/Reactive Energy Pulse Contacts:</b>	N.O., static output (30VAC/DC, 100mA max. @ 25°C, derate 0.56mA per °C above 25°C)
<b>Mechanical Characteristics:</b>	
<b>Weight:</b>	0.62 lb (0.28 kg)
<b>IP Degree of Protection (IEC 60529):</b>	IP40 front display; IP20 Meter
<b>Display Characteristics:</b>	Back-lit blue LCD
<b>Terminal Block Screw Torque:</b>	0.37 ft•lb (0.5 N•m) nominal/0.44 ft•lb (0.6 N•m) max
<b>Terminal Block Wire Size:</b>	26 to 14 AWG (0.13 to 2.08 mm <sup>2</sup> )
<b>Rail:</b>	T35 (35mm) DIN Rail per EN50022
<b>Environmental Conditions:</b>	
<b>Operating Temperature:</b>	Meter: -30° to 70°C; Display: 0° to 50°C
<b>Storage Temperature:</b>	Meter: -40° to 85°C; Display: -10° to 60°C
<b>Humidity Range:</b>	<95% RH (non-condensing)
<b>Altitude of Operation:</b>	3 km max.
<b>Metering Category:</b>	
<b>North America:</b>	CAT III; for distribution systems up to 347 V L-N/600VAC L-L
<b>CE:</b>	CAT III; for distribution systems up to 300 V L-N
<b>Dielectric Withstand:</b>	Per UL 508, EN61010
<b>Conducted and Radiated Emissions:</b>	FCC part 15 Class B, EN55011/EN61000 Class B (residential and light industrial)
<b>Conducted and Radiated Immunity:</b>	EN61000 Class A (heavy industrial)
<b>Safety:</b>	

**North America (cULus):**

UL508 (open type device)/CSA 22.2 No. 14-05

**Europe (CE):**

EN61010-1:2001