

KIT-MV-1P

Measurement and Verification (power monitoring) System - Single Phase

Discontinued

The HOBO Measurement & Verification System is a self-contained kit making it convenient and economical for energy performance contractors, energy consultants, and building energy managers to track the performance of building systems, such as packaged HVAC units, and verify the impact of energy efficiency improvements. The HOBO Measurement & Verification System is a self-contained kit making it convenient and economical for energy performance contractors, energy consultants, and building energy managers to track the performance of building systems, such as packaged HVAC units, and verify the impact of energy...



Supported Measurements

Kilowatt Hours (kWh), Kilowatts (kW)

Contact Us

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

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

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

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

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470 MacArthur Boulevard
Bourne, MA 02532

Measurement and Verification (power monitoring) System - Single Phase (KIT-MV-1P) Specifications

H21-002 - HOBO Micro Station Data Logger

- Operating Range: -20° to 50°C (-4° to 122°F) with alkaline batteries, -40° to 70°C (-40° to 158°F) with lithium batteries
- Sensor Inputs: Up to four smart sensors (including multiple-parameter sensors)
- Communication: 3.5 mm serial port
- Dimensions: 8.9 cm H x 11.4 cm D x 5.4 cm W (3.5 x 4.5 x 2.125 inches)
- Weight: 0.36 kg (0.8 lb)
- Memory: 512K nonvolatile flash data storage
- Memory Modes: Stop when full, wrap around when full
- Operational Indicators: Seven lights provide logging and sensor network status
- Logging Interval: 1 second to 18 hours, user-specified interval
- Battery Life: 1 year typical use (up to 4 sensors with 1 minute or longer logging interval)
- Battery Type: Four standard AA alkaline batteries included (for operating conditions -20° to 50°C [-4° to 122°F]); optional AA lithium batteries available for operating conditions of -40° to 70°C (-40° to 158°F)
- Time Accuracy: 0 to 2 seconds for the first data point and ± 5 seconds per week at 25°C (77°F)
- Data Type: Supports measurement averaging based on availability of supporting data from sensor
- Logger Start Modes: Immediate, push-button, or delayed start options
- Data Communication: Current reading while logging, offload while logging, or offload when stopped
- Environmental Rating: Weatherproof, with Gore™ Vent for deployment in harsh weather conditions
- Mounting: Mount vertically on flat surface 18 cm (3.5 inches) or wider; optional mast mounting kit for use on 4.1 cm (1 5/8 inches) diameter masts
- Enclosure Access: Cover secured by four screws
- Sensor Network Cable Length: 100 m (328 ft) maximum

S-UCC-M001 - Electronic Switch Pulse Input Adapter - 1 meter

- Maximum Input Frequency: 120 Hz (120 pulses per second)
- Measurement Range: 0 – 65,533 pulses per logging interval
- Resolution: 1 pulse
- Lockout time: 45 μ s \pm 10%
- Recommended Input Type: Electronic solid state switch closure or CMOS-level digital output (example: FET, opto-FET or open collector)
- Preferred Switch State: Active low input Normally open
- Edge Detection: Falling edge, Schmitt Trigger buffer (logic levels: low ? 0.6 V, high ? 2.7 V)
- Minimum Pulse Width: 1 ms
- Input/Output Impedance: 100 K Ω
- Open Circuit Input Voltage: 3.3 V
- Maximum Input Voltage: 3.6 V
- User Connection: 24 AWG wires, 2 leads: white(+), black(-)
- Operating Temperature Range: -40° to 75°C (-40° to 167°F)
- Overall Cable Length: 1 m (3.3 ft.)
- Housing: Weatherproof PVC housing protects input adapter electronics
- Housing Dimensions: 14 x 0.95 cm (5.5 x 0.375 in.)
- Weight: 310 g (11 oz.)
- Bits per Sample 16
- Number of Data Channels: 1
- Measurement Averaging Option: No (reports the number of pulses over the logging interval)

T-MAG-SCT-050 - 0 - 50 AMP Split-core AC Current Transformer -0.75" Opening

- Measurement ranges: 0-50 Amps AC
- Accuracy: $\pm 1\%$ (from 10% to 130% of rated current)
- Voltage rating: 600VAC
- Phase angle: <2 degrees (valid for 70A or higher)
- Output signal to FlexSmart TRMS Module: 0.333V at rated current
- Number of data channels: 1
- Quality construction:
- UL recognized
- 0.75" Opening
- Epoxy encapsulated housing
- Leads – 8-ft twisted pair, 22 AWGG
- Snap closing/opening
- Internal precision burden resistor

T-MAG-SCT-200 - 0 - 200 AMP Split-core AC Current Transformer - 1.25" Opening

- Measurement ranges: 0-200 Amps AC
- Accuracy: $\pm 1\%$ (from 10% to 130% of rated current)
- Voltage rating: 600VAC
- Phase angle: < 2 degrees (valid for 70A or higher)
- Output signal to FlexSmart TRMS Module: 0.333V at rated current
- Number of data channels: 1
- Quality construction:
- UL recognized
- 1.25" Opening
- Epoxy encapsulated housing
- Leads – 8-ft twisted pair, 22 AWGG
- Snap closing/opening
- Internal precision burden resistor

T-WNB-3D-240 - WattNode 208/240 VAC kWh Transducer

- Configuration ranges: 120-240 Volts AC
 - 1 Phase 2 Wire 208V (No neutral)
 - 1 Phase 2 Wire 240V (No neutral)
 - 1 Phase 3 Wire 120V/240V
- Rating: FCC Class A
- Operating: voltage range: $\pm 20\%$ of nominal
- Frequency: 60 Hz
- CT input: 0-0.5 VAC operating, 3 VAC maximum
- Accuracy: $\pm 0.45\%$ of reading + 0.05% FS through 25th harmonic (dependent on CT used and line variation accuracy could be 1.5% to 4% of reading)
- Enclosure: high impact, UL rated ABS plastic
- Connectors: UL, CSA recognized, detachable screw terminals (14 AWG), 600V
- Operating temp range: -30 to 60°C (-22 to 140°F)
- Operating humidity range: 0 to 90% RH, non-condensing
- Dimensions: 8.5 cm x 14.3 cm x 3.8 cm (3.3 in. x 5.6 in. x 1.5 in.)
- Weight: 295 g (10.4 oz.)
- Number of data channels: 2