



DISCONTINUED: HOBO U12-013 Temperature/Relative Humidity/2 External Channel Data Logger

Product Images



Short Description

This HOBO U12-013 is a small, accurate 12-bit Data Logger with USB interface and Temperature, Relative Humidity and two External inputs for use in indoor environments.

Description

The HOBO U12-013 data logger has a built in temperature and relative humidity sensor along with 2 external channels for a wide range of energy and environmental sensors. This product can store up to 43,000 measurements of 12-bit resolution readings.

Key Features

- 12-bit resolution provides high accuracy
- Large memory for long-term deployments or fast sampling
- Programmable and push button start
- Direct USB interface for fast data offload
- Compatible with Onset's HOBO U-Shuttle for convenient data transport
- Compatible with HOBOWare and HOBOWare Pro for logger setup, graphing and analysis

NOTE: HOBO loggers require a USB cable and [HOBOWare software](#) (free download).

Additional Information

Country of Manufacture	United States
Explanation	<p>Measurement Range Temperature: -20° to 70°C (-4° to 158°F) RH: 5% to 95% RH Analog channels: 0 to 2.5 Vdc (w/CABLE-2.5-STEREO); 0 to 5 Vdc (w/CABLE-ADAP5); 0 to 10 Vdc (w/ CABLE-ADAP10); 4-20 mA (w/CABLE-4-20MA)</p> <p>Accuracy Temperature: ±0.35°C from 0° to 50°C (±0.63°F from 32° to 122°F) RH: ±2.5% from 10% to 90% RH (typical), to a maximum of ±3.5%, see Plot B in manual External input channel (see sensor manual): ± 2 mV ± 2.5% of absolute reading</p> <p>Resolution Temperature: 0.03°C at 25°C (0.05°F at 77°F), see Plot A in manual RH: 0.05% RH Sample rate: 1 second to 18 hours, user selectable</p> <p>Drift Temperature: 0.1°C/year (0.2°F/year) RH: <1% per year typical; RH hysteresis 1% Time accuracy: ± 1 minute per month at 25°C (77°F), see Plot C in manual</p> <p>Response time in airflow of 1 m/s (2.2 mph) Temperature: 6 minutes, typical to 90% RH: 1 minute, typical to 90%</p> <p>Operating temperature Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing) Launch/readout: 0° to 50°C (32° to 122°F), per USB specification Battery life: 1 year typical use Memory: 64K bytes (43,000 12-bit measurements) Weight: 46 g (1.6 oz) Dimensions: 58 x 74 x 22 mm (2.3 x 2.9 x 0.9 inches) ✘ The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).</p>
Promotion	This product has been discontinued. See our full range of indoor data loggers
Brand	Onset HOBO
Channel(s)	4
Onset Product Series	U12
Typical applications	Building Monitoring, Energy, Environmental (Indoor), Thermal Comfort

Measurements

4-20mA, Air Velocity, CO2, Compressed Air Flow,
Current AC, Current DC, Humidity, Kilowatts (kW),
Pressure, Temperature, Volatile Organic Comp., Voltage
AC, Voltage DC

Additional Options

HOBOWare Pro Software Options	HOBOWare Pro on USB Drive (USB cable included)
	HOBOWare Pro on CD (USB Cable Included)
	HOBOWare Pro - Download Only (USB cable NOT included)
Temperature & Humidity Calibration Certificate	Temperature & Humidity Calibration @ 20°C and 50RH
	Temperature & Humidity Calibration (please specify measurement points required)
4-20 mA Input Cable	4-20 mA Input Cable (CABLE-4-20MA)
USB Cable (included with HOBOWare Pro on USB Drive & CD)	HOBO U-Series to PC USB Cable
AC Current Sensor	0-20AMP AC Split-Core Current Sensor Transformer (CTV-A)
	0-50AMP AC Split-Core Current Sensor Transformer (CTV-B)
	0-100AMP AC Split-Core Current Sensor Transformer (CTV-C)
	0-200AMP AC Split-Core Current Sensor Transformer (CTV-D)
AC Voltage Transmitter Sensor	ConLab Volt AC Transmitter Sensor (0 to 150 Volts AC) (SKU: T-CON-ACT-150)
	ConLab Volt AC Transmitter Sensor (0 to 300 Volts AC) (SKU: T-CON-ACT-150)
Air Velocity Transducer	TSI 8455 General Purpose Airflow / Air Velocity Transducer (8455)
	TSI 8465 Windowless Airflow / Air Velocity Transducer (8465)
	TSI 8475 Omni-directional Airflow / Air Velocity Transducer (8475)
Carbon Dioxide Sensor (hold down Ctrl key & click to select multiple items)	Telaire 7001i Carbon Dioxide Sensor (TEL-7001)
	Telaire 7001 CO2 Sensor Output Cable - required with CO2 Sensor (CABLE-CO2)
Compressed Air Flow Meter Sensor	Compressed Air Flow Meter Sensor (for 1 inch pipe) (SKU: T-CDI-5200-10S)
	Compressed Air Flow Meter Sensor (for 2 inch pipe) (SKU: T-CDI-5400-20S)

DC Amperage (hold down Crtl key & click to select multiple items)	Split-Core Bi-Polar DC Transducer (T-VER-971BP-200)
	4-20 mA Input Cable (CABLE-4-20MA)
	Switched AC Power Adapter (P-AC-1)
DC Voltage Input Cable	0 to 2.5 V DC (CABLE-2.5-STEREO)
	0 to 5 V DC (CABLE-ADAP5)
	0 to 10 V DC (CABLE-ADAP10)
	0 to 10 V DC (CABLE-ADAP24)
Differential Pressure (hold down Crtl key & click to select multiple items)	Differential Air Pressure & Air Velocity Transducer Sensor with LCD Display (T-VER-PX3UL)
	0-5 Volt DC Input Cable (CABLE-ADAP5)
	AC Power Adapter for 3rd Party Sensors up to 400mA @12vdc Power (AC-SENS-1)
Temperature Sensors	Air/Water/Pipe Temperature Sensor - 1ft cable, 0.5 cm x 2.5 cm round probe (TMC1-HD)
	Air/Water/Pipe Temperature Sensor - 6ft cable, 0.5 cm x 2.5 cm round probe (TMC6-HD)
	Air/Water/Pipe Temperature Sensor - 20ft cable, 0.5 cm x 2.5 cm round probe (TMC20-HD)
	Air/Water/Pipe Temperature Sensor - 50ft cable, 0.5 cm x 2.5 cm round probe (TMC50-HD)
	Air/Water/Pipe Temperature Sensor - 6ft cable, plated copper sensor probe (TMC6-HE)
	Stainless Steel Temperature Sensor - 6 ft cable (TMC6-HC)