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DISCONTINUED: HOBO U12-012 Temperature/Relative Humidity/Light/External Channel Data Logger

Product Images

Short Description

The U12-012 is a small, accurate 12-bit Data Logger with USB interface and Temperature, Relative Humidity, Light Level and External input for use in indoor environments.

Description

Measure temperature, relative humidity, light intensity, and more with the HOBO U12-012. With 12-bit resolution measurements, this data logger gathers a range of recorded data and stores 43,000

measurements.

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	**Measurement Range** **Temperature:** -20° to 70°C (-4° to 158°F) **RH:** 5% to 95% RH **Light intensity:** 1 to 3000 footcandles (lumens/ft2) typical; maximum value varies from 1500 to 4500 footcandles (lumens/ft2) **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) **Accuracy** **Temperature:** ± 0.35°C from 0° to 50°C (± 0.63°F from 32° to 122°F), see Plot A in manual **RH:** ± 2.5% from 10% to 90% RH typical, to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10% and above 90% ±5% typical, see Plot B in manual **Light intensity:** Designed for indoor measurement of relative light levels, see Plot D in manual for light wavelength response **External input channel (see sensor manual):** ± 2 mV ± 2.5% of absolute reading **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 **Drift** **Temperature:** 0.1°C/year (0.2°F/year) **RH:** <1% per year typical; RH hysteresis 1% **Response Time in Airflow of 1 m/s (2.2 mph)** **Temperature:** 6 minutes, typical to 90% **RH:** 1 minute, typical to 90% **Time accuracy**: ± 1 minute per month at 25°C (77°F), see Plot C in manual **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).
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), Light Intensity, Pressure, Temperature, Volatile Organic Comp., Voltage AC, Voltage DC

Additional Options

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)
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 Crtl 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)
Temperature Sensors	AC Power Adapter for 3rd Party Sensors up to 400mA @12vdc Power (AC-SENS-1)
	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)