



DISCONTINUED: HOBO U14-001 Temperature & Relative Humidity Data Logger (LCD Screen & Internal Sensors)

Product Images



Short Description

Now with USB interface for fast data download the Hobo LCD DataLogger with digital display measures and logs Temperature and Relative Humidity providing an 'Alert' display and relay contact output for out-of-limit alarms. Two models are available: U14-001 with internal temperature/RH sensors, and U14-002 which accepts an external temperature sensor, or an external temperature/RH sensor.

Description

HOBO U14 data loggers display, record, and provide alarm notifications of temperature and humidity conditions.

These loggers are well-suited for use in manufacturing, processing, and storage environments where reliable monitoring and documentation of temperature and relative humidity conditions is critical.

Highlighted Features

- Faster USB data download time
- Improved Temperature/Relative Humidity sensor resolution
- Real-time display of Temperature and Relative Humidity
- Alarm display and output ensure timely notification of out-of-range conditions
- Two models to choose from - with internal sensors, or [with external sensors](#).
- Optional protective case for wet or condensing environments
- Compatible with HOBOWare and HOBOWare Pro software 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>The country of origin for this product is the United States.</p> <p>Environmental</p> <ul style="list-style-type: none">• Operating temperature range -20°C to +50°C, (-4°F to +122°F) , 0 to 100% RH non-condensing• Operating relative humidity range 0 to 95%, non-condensing, noncorrosive environment <p>Logger Capabilities</p> <ul style="list-style-type: none">• Capacity: Temp and RH: 21,500 measurements Temp Only: 43,000 measurements• Software-selectable sampling intervals: 1 second up to 18 hours, recording times up to 1 year• Programmable start time/date• Recording modes: Stop when full• Launch Modes: Immediate, Delayed• Nonvolatile EEPROM memory retains data even if batteries fail <p>LCD</p> <ul style="list-style-type: none">• Size: 33 x 50.8 mm (1.3 x 2 inches)• Displays temperature and relative humidity simultaneously• Displays °C or °F (selectable within host software)• Displays memory remaining and battery level• Displays flashing ALERT for out-of-limits conditions (selectable within host software) and stops flashing on offload or return to normal range. <p>Alarms</p> <ul style="list-style-type: none">• High and low set points for both temperature and relative humidity• Selectable delays for each set point• Alert conditions reset on offload or return to normal range.• Selectable Contact Relay: Normally Closed or Normally Open• Contact rating: 48VDC, 1A max• Contact resistance: less than 1 Ohm• Wire size range is 22AWG to 14AWG• 0% Low Battery Range Communications• Offloads data to PC or U-Shuttle via USB cable• Readout full logger (64K) in less than 30 seconds <p>Timekeeping</p> <ul style="list-style-type: none">• Time accuracy: ±1 minute per month at 20°C (68°F). <p>Power</p> <ul style="list-style-type: none">• 3 AAA Alkaline batteries, user-replaceable <p>Size/Weight</p> <ul style="list-style-type: none">• 125 x 92 x 31 mm (4.9 x 3.6 x 1.2 inches)• 170 g (6.0 oz) with batteries <p>Internal 12-Bit Temperature Sensor</p> <ul style="list-style-type: none">• Measurement range: -20°C to 50°C (-4°F to 122°F)• Accuracy: ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F); ±0.13°C (0.24°F) typical• Resolution: 0.02°C @ 25°C (0.04°F @ 77°F)• Response time: 15 minutes (to 90% in airflow of 1 m/sec)• Temperature Accuracy Drift: Negligible <p>Internal 12-Bit Relative Humidity Sensor</p> <ul style="list-style-type: none">• User replaceable• Measurement range: 0-100% RH, -20 to 50°C (-4 to 122°F)• Accuracy: ±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• Resolution: 0.05% RH• Response time to 90%: 2 minutes (to 90% in airflow of 1 m/sec)• Accuracy Drift: <1% per year typical• Hysteresis: 1% typical <p>External Sensors</p> <ul style="list-style-type: none">• For External Sensor Specifications, see the sensor's user manual. <p>Battery Life</p> <ul style="list-style-type: none">• The batteries will last one year in typical conditions (logging intervals of ≥ 1 minute with weekly offloads and average temperatures greater than 10°C or 50°F). Frequent offloads and/or extreme temperatures will reduce battery life.• At temperatures below freezing (0°C or 32°F), batteries will typically require replacement every six months. In these conditions the battery level bar graph should be checked regularly.
Promotion	This product has been discontinued. See our full range of temperature & humidity data loggers
Brand	Onset HOBO
Channel(s)	2
Onset Product Series	U14
Typical applications	Environmental (Indoor), Environmental (Outdoor), Thermal Comfort
Measurements	Humidity, Temperature

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)
USB Cable (included with HOBOWare Pro on USB Drive & CD)	HOBO U-Series to PC USB Cable