



HOBO[®] U14-002 Data Logger

External Temperature/RH LCD Data Logger

The HOBO U14 LCD External Temperature/Relative Humidity Data Logger displays and records temperature and humidity conditions. It is well-suited for use in manufacturing, processing, and storage environments where reliable monitoring and documentation of specific temperature/relative humidity conditions are critical. Data is offloaded via USB to a PC or Mac computer. An alarm display and built-in relay for use with Onset's Remote Alarm and/or Autodialer accessories assure timely notification of alarm conditions.

Supported Measurements:

Relative Humidity and Temperature

Key Advantages:

- Faster USB data download time
- Improved Temp/RH sensor resolution
- Real-time display of Temperature and RH
- Alarm display and output ensure timely notification of out-of-range conditions
- Two models to choose from - internal Temp/Relative Humidity or external Temperature or Temperature/Relative Humidity
- Optional Remote Alarm and Autodialer
- Optional protective case for wet or condensing environments
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing and analysis



HOBO U14-002 Data Logger Specifications

Environmental

- 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

Logger Capabilities

- 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

LCD

- 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

Alarms

- 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

Timekeeping

- Time accuracy: ±1 minute per month at +20°C (+68°F).

Power

- 3 AAA Alkaline batteries, user-replaceable

Size/Weight

- 125 x 92 x 31 mm (4.9 x 3.6 x 1.2 inches)
- 170 g (6.0 oz) with batteries

External Sensors

- For External Sensor Specifications, see the sensor's user manual.

1.888.610.7664



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sales@calcert.com

- 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.

