

UX100-023A

## HOBO External Temp/RH Data Logger



Discontinued

An external-sensor data logger to measure and record temperature and relative humidity in indoor environments.

### Important Information

Requires HOBOWare software and a USB cable. (Note: A USB-A to USB-B mini cable is included w/HOBOWare Pro USB Drive software purchase). See compatible items below.



Compatible with  
**HOBOWare® Software**

[View upgrade options](#)

### Supported Measurements

Dew Point, Relative Humidity, Temperature

### Features

- Easy-to-view LCD display
- Large memory capacity
- Visual high & low alarm thresholds
- Burst and Statistics logging modes
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing, and analysis

### What's in the box

- HOBO UX100-023 External Temp/RH Data Logger
- Command™ strip
- Double-sided tape
- Hook & loop strap

### Contact Us

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

- Email [sales@onsetcomp.com](mailto: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](http://www.onsetcomp.com/support/contact)
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

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# HOBO External Temp/RH Data Logger (UX100-023A) Specifications

## Temperature Sensor

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**Range:** -20° to 70°C (-4° to 158°F)

**Accuracy:** ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F)

**Resolution:** 0.024°C at 25°C (0.04°F at 77°F)

**Response time:** 3 minutes, 45 seconds in air moving 1 m/s (2.2 mph)

**Drift:** <0.1°C (0.18°F) per year

## RH Sensor

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**Range:** 1% to 100% RH at -40° to 75°C (-40° to 167°F), non-condensing; exposure to conditions below -20°C (-4°F) or above 95% RH may temporarily increase the maximum RH sensor error by an additional 1%

**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:** 0.01%

**Response time:** 15 seconds to 90% in airflow of 1 m/s (2.2 mph)

**Drift:** <1% per year typical

**Cable length:** 1.83 m (6 ft)

## Logger

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### Logger Operating Range

**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

**Logging rate:** 1 second to 18 hours, 12 minutes, 15 seconds

**Logging modes:** Normal, Burst or Statistics

**Memory modes:** Wrap when Full or Stop when Full

**Start modes:** Immediately, Push Button, Date & Time or Next Interval

**Stop modes:** When Memory Full, Push Button, or Date & Time

**Restart mode:** Push Button

**Time accuracy:** ±1 minute per month at 25°C (77°F)

**Battery life:** 1 year, typical with logging rate of 1 minute and sampling interval of 15 seconds or greater

**Battery type:** One 3V CR2032 lithium battery

**Memory:** 128 KB (63,488 measurements, maximum)

**Download type:** USB 2.0 interface

**Full memory download time:** 20 seconds

**LCD:** LCD is visible from: 0° to 50°C (32° to 122°F); the LCD may react slowly or go blank in temperatures outside this range

**Size:** 3.66 x 8.48 x 2.29 cm (1.44 x 3.34 x 0.9 in.)

**Weight:** 30 g (1.06 oz)

**Environmental rating:** IP50



- The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)

## Cable

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**One 184 cm (6 ft.) PVC cable:** sensor diameter 1 cm (0.38 in.)