

## HOBO UX100 External Temp/RH Data Logger - UX100-023



**Measures:**

Temperature, Relative Humidity

**Features:**

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

Qty	1-9	10-99	100+
\$US	\$189	\$176	\$161

Contact Onset at 1-800-564-4377

**Description:**

The HOBO UX100-023 External Temp/RH [data logger](#) records [temperature](#) and [relative humidity](#) in an indoor environment with its external sensor. Ideal for monitoring occupant comfort in office buildings, tracking food storage conditions in warehouses, logging temperature trends in server rooms, and measuring humidity levels in museums.

**Detailed Specifications:**

**Temperature Sensor**

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

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

**Resolution:** 0.024°C at 25°C (0.04°F at 77°F); see Plot A

**Response Time:** 6 minutes in air moving 1 m/s (2.2 mph)

**Drift:** <0.1°C (0.18°F) per year

**RH Sensor**

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

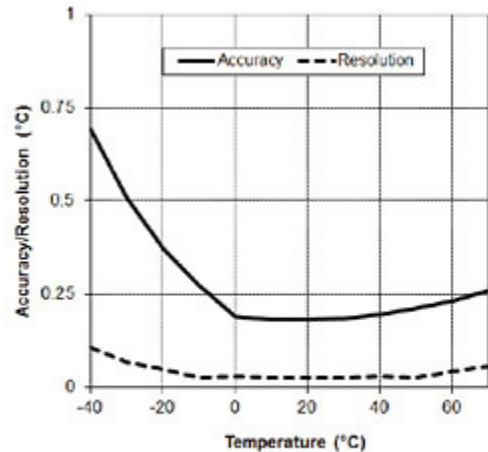
**Accuracy:** ±2.5% from 10% to 90% typical to a maximum of ±3.5% including hysteresis, see Plot B

**Resolution:** 0.05% at 25°C (77°F)

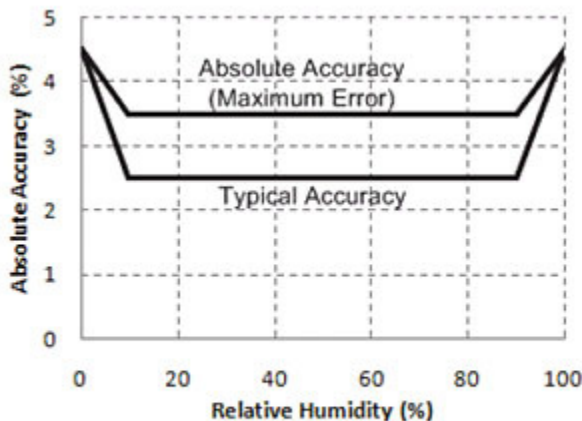
**Response Time:** 5 minutes to 90% in airflow of 1 m/s (2.2 mph)

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

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



**Plot A: Temperature Accuracy and Resolution**



**Plot B: RH Accuracy**

## Logger

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### Logger Operating Range:

Logging: -20°C to 70°C (-4°F to 158°F); 0 to 95% RH (non-condensing)  
Launch/Readout: 0°C to 50°C (32°F 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:**  $\pm 1$  minute per month at 25°C (77°F), see Plot C

**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 (84,650 measurements, maximum)

**Download Type:** USB 2.0 interface

**Full Memory Download Time:** 20 seconds

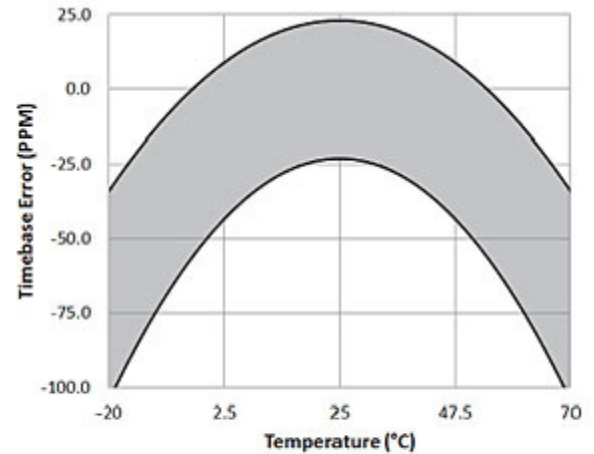
**LCD:** LCD is visible from: 0°C to 50°C (32°F to 122°F); the LCD may react slowly or go blank in temperatures outside this range

**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

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



**Plot C: Time Accuracy**

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**HOBO**® Data Loggers

**1-800-LOGGERS**