



HOBO® UX100-023A Data Logger

External Temp/RH Data Logger

The HOBO UX100-023 External Temperature/Relative Humidity 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.

Supported Measurements:

Relative Humidity and Temperature

Key Advantages:

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



HOBO UX100-023A Data Logger Specifications

Temperature Sensor

Range: -20° to 70°C (-4° to 158°F)

Accuracy: $\pm 0.21^{\circ}\text{C}$ from 0° to 50°C ($\pm 0.38^{\circ}\text{F}$ 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: $<0.1^{\circ}\text{C}$ (0.18°F) per year

RH Sensor

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: $\pm 2.5\%$ from 10% to 90% RH typical to a maximum of $\pm 3.5\%$ including hysteresis at 25°C (77°F); below 10% and above 90% $\pm 5\%$ 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

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

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

Contact Us

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

- ▶ Email 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 8pm ET, Monday through Friday)

- ▶ Contact Product Support www.onsetcomp.com/support/contact
- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-877-564-4377

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