



HOBO® UX100-011A Data Logger

Temp/RH 2.5% Data Logger

The HOBO UX100-011 Temperature/Relative Humidity data logger records temperature and relative humidity (within 2.5% accuracy) in indoor environments with its integrated sensors. This data logger is 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
- User-replaceable Relative Humidity sensor



HOBO UX100-011A 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), see Plot A

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

Response time: 4 minutes 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 95% (non-condensing)

Accuracy: $\pm 2.5\%$ from 10% to 90% 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: 10 seconds to 90% in airflow of 1 m/s (2.2 mph)

Drift: $<1\%$ per year typical

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), 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 (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)

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
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Technical Support (8am to 8pm ET, Monday through Friday)

- ▶ Contact Product Support www.onsetcomp.com/support/contact
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