



HOBO® UX100-003 Data Logger

Temperature/Relative Humidity 3.5% Data Logger

The HOBO UX100-003 Temperature/Relative Humidity data logger records temperature and relative humidity (within 3.5% accuracy) in indoor environments with its integrated sensors. The 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.



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
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing and analysis

HOBO UX100-003 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: 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: 15% to 95% (non-condensing)

Accuracy:

$\pm 3.5\%$ from 25% to 85% including hysteresis at 25°C (77°F); below 25% and above 85% $\pm 5\%$ typical

Resolution: 0.07% at 25°C (77°F) and 30% RH

Response time: 43 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)

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° 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 1.52 cm (1.44 x 3.34 x 0.6 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)

