ONSET

HOBO® UX100-023A Data Logger

External Temp/RH

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.

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: ±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

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

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

CE - 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.)