

## 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

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**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

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**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

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#### 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

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



For more information, visit  
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