



## HOBO® UX120-014M Data Logger

### 4-Channel Thermocouple

The HOBO UX120 Thermocouple Data Logger is a four-channel LCD data logger for measuring and recording temperature in a broad range of monitoring applications. The data logger makes it easy and convenient to record temperatures over a broad range (-260 to 1820 °C) and can accept up to four J, K, T, E, R, S, B, or N type probes.

In addition to accepting four thermocouple probes, the data logger features an internal temperature sensor for logging ambient temperatures, further extending the range of application possibilities.

Onset also offers a single-channel thermocouple data logger, the HOBO UX100-014M.



#### Key Advantages:

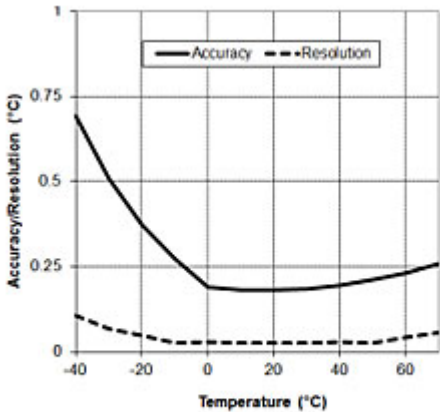
- Easy-to-view LCD display confirms logger operation and battery status
- Near real-time readout of current temperatures as well as minimum, maximum, average and standard deviation statistics
- On-screen alarms notify you if temperatures exceed high or low thresholds
- Large memory capacity capable of storing 1.6 million measurements
- Start, stop, and restart pushbuttons
- User upgradeable firmware
- Optional protective case enables logger use in outdoor environments
- Compatible with HOBOWare and HOBOWare Pro software for logger setup, graphing and analysis

HOBO UX120-014M Data Logger Specifications

Thermocouple

| Type | Range                               | Accuracy                                       | Resolution         |
|------|-------------------------------------|------------------------------------------------|--------------------|
| J    | -210° to 760°C (-346° to 1,400°F)   | ±0.6°C (±1.08°F) ± thermocouple probe accuracy | 0.03°C (0.06°F)    |
| K    | -260° to 1,370°C (-436° to 2,498°F) | ±0.7°C (±1.26°F) ± thermocouple probe accuracy | 0.04°C (0.07°F)    |
| T    | -260° to 400°C (-436° to 752°F)     | ±0.6°C (±1.08°F) ± thermocouple probe accuracy | 0.02°C (0.03°F)    |
| E    | -260° to 950°C (-436° to 1,742°F)   | ±0.6°C (±1.08°F) ± thermocouple probe accuracy | 0.03°C at (0.05°F) |
| R    | -50° to 1,550°C (-58° to 2,822°F)   | ±2.2°C (±3.96°F) ± thermocouple probe accuracy | 0.08°C (0.15°F)    |
| S    | -50° to 1,720°C (-58° to 3,128°F)   | ±2.2°C (±3.96°F) ± thermocouple probe accuracy | 0.08°C (0.15°F)    |
| B    | 550° to 1,820°C (1,022° to 3,308°F) | ±2.5°C (±4.5°F) ± thermocouple probe accuracy  | 0.1°C (0.18F)      |
| N    | -260° to 1,300°C (-436° to 2,372°F) | ±1.0°C (±1.8°F) ± thermocouple probe accuracy  | 0.06°C (0.11°F)    |

Internal 10K Thermistor (Temperature):



Plot A: Internal Temperature Accuracy & Resolution Range: Logging: -20° to 70°C (-4° to 158°F)

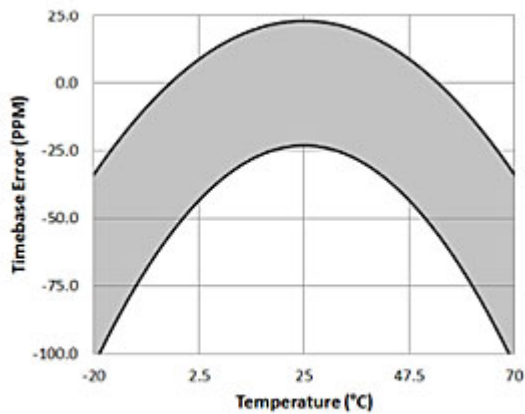
Accuracy: ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F), see Plot A  
Resolution: 0.024°C at 25°C (0.04°F at 77°F); see Plot A  
Drift: <0.1°C (0.18°F) per year

Logger

Logger Operating Range  
Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing); logger accuracy from 0° to 50°C (32° to 122°F)  
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



**Plot B: Time Accuracy**

**Time accuracy:**  $\pm 1$  minute per month at 25°C (77°F), see Plot B

**Battery life:** 1 year, typical with logging rate of 1 minute and sampling interval of 15 seconds or greater

**Battery type:** Two AAA 1.5V alkaline batteries, user replaceable

**Memory:** 4 MB (1.6 million measurements, maximum)

**Download type:** USB 2.0 interface

**Full memory download time:** Approximately 1.5 minutes

**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:** 10.8 x 5.41 x 2.54 cm (4.25 x 2.13 x 1 in.)

**Weight:** 107.5 g (3.79 oz)

**Environmental rating:** IP50

**CE** - The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)

## Contact Us

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