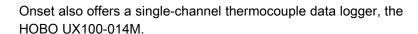
# **ONSET**

## HOBO® UX120-014M Data Logger

### 4-Channel Thermocouple Data Logger

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.





#### **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**

Туре	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)
Т	-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)
В	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):

Range: Logging: -20° to 70°C (-4° to 158°F)

Acuracy: ±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

Time accuracy: ±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

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