

UX100-014M

HOBO Type J, K, T, E, R, S, B, N Thermocouple Data Logger



A single-channel thermocouple data logger to measure and record temperature in indoor environments. Thermocouple sensors sold separately.

Important Information

External sensors sold separately. Requires HOBOWare software and a USB cable. (Note: A USB-A to USB-B mini cable is included w/HOBOWare Pro USB Drive software purchase). See compatible items below.



Compatible with
HOBOWare® Software

Supported Measurements

Temperature, Thermocouple

Features

- High-accuracy J, K, T, E, R, S, B, N thermocouple readings
- Easy-to-view LCD display
- Large memory capacity
- Visual high & low alarm thresholds
- Burst and Statistics logging modes
- Record ambient temperature with internal thermistor

What's in the box

- HOBO UX100-014M Single Channel Thermocouple Data Logger
- Command™ strip
- Double-sided tape
- Hook & loop strap

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Onset Computer Corporation
470 MacArthur Boulevard
Bourne, MA 02532

Technical Support (8am to 5pm ET, Monday through Friday)

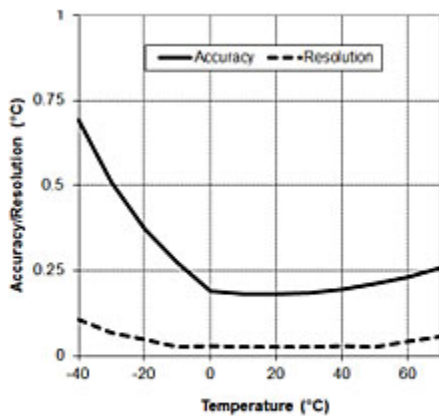
- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

HOBO Type J, K, T, E, R, S, B, N Thermocouple Data Logger (UX100-014M) Specifications

Thermocouple

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

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

Resolution: 22-bit

Logging rate: 1 second to 18 hours, 12 minutes, 15 seconds

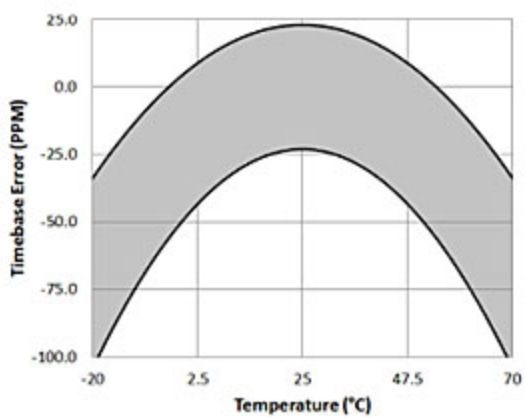
Logging modes: Normal, Burst or Statistics

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: ± 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: One 3V CR2032 lithium battery

Memory: 512 KB (208,076 measurements, maximum)

Download type: USB 2.0 interface

Full memory download time: 1 minute, 30 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 5.94 x 1.52 cm (1.44 x 2.34 x 0.6 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)