



HOBO UX100-014M Thermocouple Data Logger

Product Images



Description

The HOBO UX100-014M Single Channel Thermocouple data logger records temperature in indoor environments with mini plug thermocouple sensors (sold separately).

Designed for a broad range of monitoring applications - from industrial process monitoring to concrete maturity testing - the data logger provides exceptional flexibility by accepting J, K, T, E, R, S, B or N type thermocouple probes.


- 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

- New Burst and Statistics logging modes

NOTE: HOBO loggers require a USB cable and [HOBOWare software](#) (free download).

Also available is the [HOBO UX120-014M](#) four-channel thermocouple data logger.

Additional Information

Country of Manufacture	United States																																				
Explanation	<p>The country of origin for this product is the United States. To see the full specifications for this product, please see the product manual found under the Resources tab.</p> <p>Thermocouple</p> <table><tr><th>Type</th><th>Range</th><th>Accuracy</th><th>Resolution</th></tr><tr><td>J</td><td>-210° to 760°C (-346° to 1,400°F)</td><td>±0.6°C (±1.08°F) ± thermocouple probe accuracy</td><td>0.03°C (0.06°F)</td></tr><tr><td>K</td><td>-260° to 1,370°C (-436° to 2,498°F)</td><td>±0.7°C (±1.26°F) ± thermocouple probe accuracy</td><td>0.04°C (0.07°F)</td></tr><tr><td>T</td><td>-260° to 400°C (-436° to 752°F)</td><td>±0.6°C (±1.08°F) ± thermocouple probe accuracy</td><td>0.02°C (0.03°F)</td></tr><tr><td>E</td><td>-260° to 950°C (-436° to 1,742°F)</td><td>±0.6°C (±1.08°F) ± thermocouple probe accuracy</td><td>0.03°C at (0.05°F)</td></tr><tr><td>R</td><td>-50° to 1,550°C (-58° to 2,822°F)</td><td>±2.2°C (±3.96°F) ± thermocouple probe accuracy</td><td>0.08°C (0.15°F)</td></tr><tr><td>S</td><td>-50° to 1,720°C (-58° to 3,128°F)</td><td>±2.2°C (±3.96°F) ± thermocouple probe accuracy</td><td>0.08°C (0.15°F)</td></tr><tr><td>B</td><td>550° to 1,820°C (1,022° to 3,308°F)</td><td>±2.5°C (±4.5°F) ± thermocouple probe accuracy</td><td>0.1°C (0.18F)</td></tr><tr><td>N</td><td>-260° to 1,300°C (-436° to 2,372°F)</td><td>±1.0°C (±1.8°F) ± thermocouple probe accuracy</td><td>0.06°C (0.11°F)</td></tr></table> <p>Internal 10K Thermistor (Temperature)</p> <p> 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</p> <p>Logger</p> <p>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  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</p>	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)
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Brand	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)																																				
Onset Product Series	UX100																																				
Typical applications	Building Monitoring, Energy, Environmental (Indoor), Thermal Comfort																																				
Measurements	Temperature																																				

Additional Options

Temperature Calibration Certificate	2 Point Temperature Calibration (0°C / 60°C)
	2 Point Temperature Calibration (please specify temperature points)
	1 Point Temperature Calibration (0°C)
HOBOWare Pro Software Options	HOBOWare Pro on USB Drive (USB cable included)
	HOBOWare Pro on CD (USB Cable Included)
	HOBOWare Pro - Download Only (USB cable NOT included)
USB Cable (included with HOBOWare Pro on USB Drive & CD)	HOBO U-Series to PC USB Cable