

# HOBO® UX100 Series Loggers

Next-generation family of temperature and humidity data loggers

The HOBO UX100 Series is Onset's next-generation family of data loggers for tracking temperature and relative humidity in indoor environments.

HOBO UX100 Series offer a dramatic price/performance advantage over competitive products by delivering higher accuracy, larger measurement capacity, and more LCD display features to make environmental data collection faster and easier than ever. The loggers provide a variety of features to reduce deployment time, and offer new logging modes for recording and displaying more detailed data without extensive post-processing or memory use.



**Supported Measurements:**

Temperature, Relative Humidity, Dew Point, Thermocouple

**Key Advantages:**

- Easy-to-view LCD display
- Large memory capacity
- Flexible mounting options
- Visual high & low alarm thresholds
- New Burst and Statistics logging modes
- User-replaceable RH sensors
- Temp, humidity, and thermocouple models available

**Minimum System Requirements:**



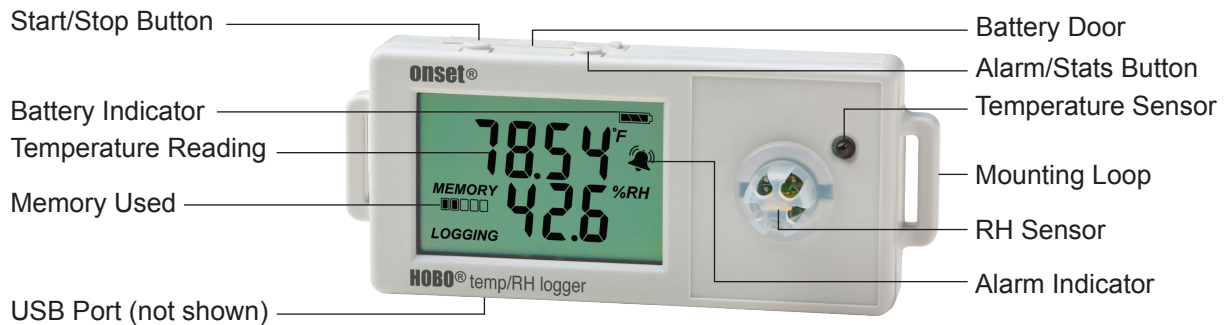
Software



USB cable\*



**Common Features of HOBO UX100 Series Loggers**



\*USB cable included with software

Part number	UX100-001 (Temp)	UX100-003 (Temp/RH)	UX100-011 (Temp/RH)	UX100-023 (Ext Temp/RH)
<b>Memory</b>	84,650 measurements			
<b>Sampling Rate</b>	1 second to 18 hours, user-selectable			
<b>Battery Life</b>	1 year typical with logging rate of 1 minute and sampling interval of 15 seconds or greater, user-replaceable, CR2032			
<b>Dimensions</b>	3.66 x 5.94 x 1.52 cm (1.44 x 2.34 x 0.6 in.)		3.66 x 8.48 x 1.52 cm (1.44 x 3.34 x 0.6 in.)	
<b>Temperature</b>				
<b>Range</b>	-20° to 70°C (-4° to 158°F)			
<b>Accuracy</b>	±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F)			
<b>Resolution</b>	0.024°C at 25°C (0.04°F at 77°F)			
<b>Response Time</b> (airflow of 1 m/s (2.2mph))	8 minutes to 90%	4 minutes to 90%		6 minutes to 90%
<b>Relative Humidity</b>				
<b>Range</b>	n/a	15% to 95%	1% to 95%	
<b>Accuracy</b>	n/a	±3.5% from 25% to 85%	±2.5% from 10% to 90%	
<b>Resolution</b>	n/a	0.07% at 25°C (77°F)	0.05% at 25°C (77°F)	
<b>Response Time</b> (airflow of 1 m/s (2.2mph))	n/a	43 seconds to 90%	11 seconds to 90%	5 minutes to 90%
<b>CE compliant</b>	Yes			

Part number	UX100-014M (Thermocouple)			
<b>Memory</b>	208,076 measurements			
<b>Sampling Rate</b>	1 second to 18 hours, user-selectable			
<b>Battery Life</b>	1 year, typical with logging rate of 1 minute and sampling interval of 15 seconds or greater, user-replaceable, CR2032			
<b>Dimensions</b>	3.66 x 8.48 x 1.52 cm (1.44 x 3.34 x 0.6 in.)			
<b>Operating Range</b>	Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)			
<b>Thermocouple</b> (probes sold separately)	<b>Range</b>	<b>Accuracy</b>	<b>Resolution</b>	
<b>Type J</b>	-210° to 760°C (-346° to 1,400°F)	±0.6°C (±1.08°F) ± thermocouple probe accuracy	0.03°C (0.06°F)	
<b>Type K</b>	-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)	
<b>Type T</b>	-260° to 400°C (-436° to 752°F)	±0.6°C (±1.08°F) ± thermocouple probe accuracy	0.02°C (0.03°F)	
<b>Type E</b>	-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)	
<b>Type R</b>	-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)	
<b>Type S</b>	-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>Type B</b>	550° to 1,820°C (1,022° to 3,308°F)	±2.5°C (±4.5°F) ± thermocouple probe accuracy	0.1°C (0.18°F)	
<b>Type N</b>	-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)	



<b>Part number</b>	<b>UX120-014M (Thermocouple)</b>
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<b>Internal Temperature</b>	
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<b>Range</b>	-20° to 70°C (-4° to 158°F)
<b>Accuracy</b>	±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F)
<b>Resolution</b>	0.024°C at 25°C (0.04°F at 77°F)
<b>Drift</b>	<0.1°C (0.18°F) per year

<b>Logger</b>	
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<b>Logging Rate</b>	1 second to 18 hours, 12 minutes, 15 seconds
<b>Logging Modes</b>	Normal, Burst, Statistics
<b>Memory Modes</b>	Wrap when full or stop when full
<b>Time Accuracy</b>	±1 minute per month at 25°C (77°F)
<b>Battery Life</b>	1 year typical with logging rate of 1 minute and sampling interval of 15 seconds or greater, user replaceable, 2 AAA
<b>Dimensions</b>	10.8 x 5.41 x 2.54 cm (4.25 x 2.13 x 1 in.)
<b>Operating Range</b>	Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)
<b>CE Compliant</b>	Yes

<b>Thermocouple</b> (probes sold separately)	<b>Range</b>	<b>Accuracy</b>	<b>Resolution</b>
<b>Type J</b>	-210° to 760°C (-346° to 1,400°F)	±0.6°C (±1.08°F) ± thermocouple probe accuracy	0.03°C (0.06°F)
<b>Type K</b>	-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)
<b>Type T</b>	-260° to 400°C (-436° to 752°F)	±0.6°C (±1.08°F) ± thermocouple probe accuracy	0.02°C (0.03°F)
<b>Type E</b>	-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)
<b>Type R</b>	-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)
<b>Type S</b>	-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>Type B</b>	+60° to 1,820°C (1,022° to 3,308°F)	±2.5°C (±4.5°F) ± thermocouple probe accuracy	0.1°C (0.18°F)
<b>Type N</b>	-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)

