HOBO® UX100 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

**Key Advantages:**
• 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

*USB cable included with software part # BHW-PRO-CD
<table>
<thead>
<tr>
<th>Part number</th>
<th>UX100-001 (Temp)</th>
<th>UX100-003* (Temp/RH)</th>
<th>UX100-011* (Temp/RH)</th>
<th>UX100-023* (Ext Temp/RH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>84,650 measurements</td>
<td>208,076 measurements</td>
<td>84,650 measurements</td>
<td>208,076 measurements</td>
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<tr>
<td>Sampling Rate</td>
<td>1 second to 18 hours, user-selectable</td>
<td>1 second to 18 hours, user-selectable</td>
<td>1 second to 18 hours, user-selectable</td>
<td>1 second to 18 hours, user-selectable</td>
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<tr>
<td>Battery Life</td>
<td>1 year typical with logging rate of 1 minute and sampling interval of 15 seconds or greater, user-replaceable, CR2032</td>
<td>1 year typical with logging rate of 1 minute and sampling interval of 15 seconds or greater, user-replaceable, CR2032</td>
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</tr>
<tr>
<td>Dimensions</td>
<td>3.66 x 5.94 x 1.52 cm (1.44 x 2.34 x 0.6 in.)</td>
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</tbody>
</table>

**Temperature**

- **Range**: -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)
- **Resolution**: 0.024°C at 25°C (0.04°F at 77°F)
- **Response Time (airflow of 1 m/s (2.2mph))**: 8 minutes to 90%, 4 minutes to 90%, 6 minutes to 90%

**Relative Humidity**

- **Range**: n/a
- **Accuracy**: 15% to 95%, 1% to 95%
- **Resolution**: 0.07% at 25°C (77°F), 0.05% at 25°C (77°F)
- **Response Time (airflow of 1 m/s (2.2mph))**: n/a, 43 seconds to 90%, 11 seconds to 90%, 5 minutes to 90%

**Thermocouple**

- **Type 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)
- **Type 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)
- **Type T**: -260° to 400°C (-436° to 752°F), ±0.6°C (±1.08°F) ± thermocouple probe accuracy, 0.02°C (0.03°F)
- **Type 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)
- **Type 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)
- **Type 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)
- **Type 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)
- **Type 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)

*Note: Temp & RH NIST certification services available for this product. Please visit onsetcomp.com, or call us at 1-800-564-4377.

**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

Technical Support (8am to 8pm ET, Monday through Friday)
- Contact Product Support onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

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