

U12-011

HOBO Temperature/Relative Humidity Data Logger

Discontinued

A 2-channel data logger for high-accuracy monitoring of temperature and humidity. A 2-channel data logger for high-accuracy monitoring of temperature and humidity.

Important Information

Requires HOBOWare software (USB interface cable included w/CD purchase) and a communications device. See compatible items below.



Compatible with
HOBOWare[®] Software

Supported Measurements

Relative Humidity, Temperature

Features

- 12-bit resolution provides high accuracy
- Large memory for long-term deployments or fast sampling
- Five models to choose from, with flexible measurement options
- Programmable and push-button start

Contact Us

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

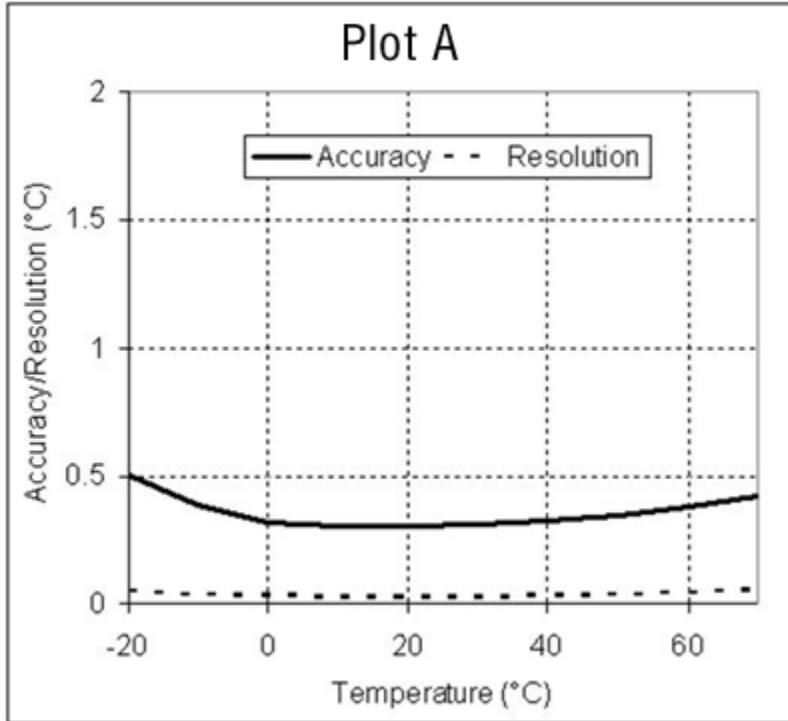
- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

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 Temperature/Relative Humidity Data Logger (U12-011) Specifications



Measurement range:

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

RH: 5% to 95% RH

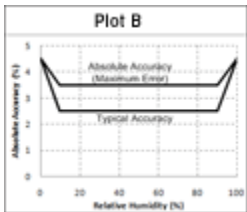
Accuracy:

Temperature: $\pm 0.35^{\circ}\text{C}$ from 0° to 50°C ($\pm 0.63^{\circ}\text{F}$ from 32° to 122°F), see Plot A

RH: $\pm 2.5\%$ from 10% to 90% RH (typical), to a maximum of $\pm 3.5\%$ including hysteresis, see Plot B.

Resolution:

Temperature: 0.03°C at 25°C (0.05°F at 77°F), see Plot A



RH: 0.03% RH

Sample Rate:

1 second to 18 hours, user selectable

Drift

Temperature: 0.1°C/year (0.2°F/year)

RH: <1% per year typical

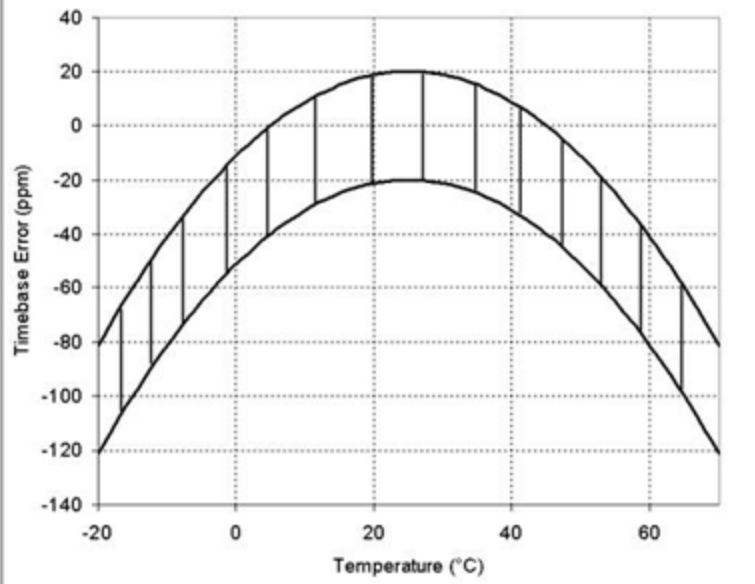
Response time in airflow of 1 m/s (2.2 mph)

Temperature: 6 minutes, typical to 90%

RH: 1 minute, typical to 90%

Time accuracy: ± 1 minute per month at 25°C (77°F), see Plot C

Plot C



Operating temperature:

Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)

Launch/readout: 0° to 50°C (32° to 122°F), per USB specification

Battery life: 1 year typical use

Memory: 64K bytes (43,000 12-bit measurements)

Weight: 46 g (1.6 oz)

Dimensions: 58 x 74 x 22 mm (2.3 x 2.9 x 0.9 inches)

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