



# HOBO® Temperature/Relative Humidity Data Logger - U12-011



### Measures:

Temperature, Relative Humidity

### 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

### Description:

The HOBO U12 Temperature/Relative Humidity Data Logger is a 2-channel data logger for high-accuracy monitoring of temperature and humidity.

### Detailed Specifications:

#### Measurement range:

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

RH: 5% to 95% RH

#### Accuracy:

Temperature: ± 0.35°C from 0° to 50°C (± 0.63°F from 32° to 122°F), see Plot A

RH: ±2.5% from 10% to 90% RH (typical), to a maximum of ±3.5%, 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; RH hysteresis 1%

#### 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

#### Operating temperature:

Logging: -20° to 70°C (-4° to 158°F)

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

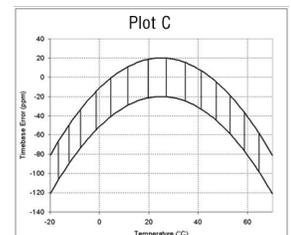
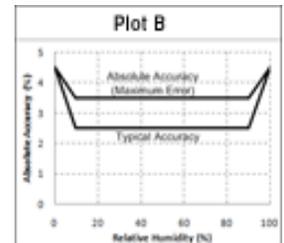
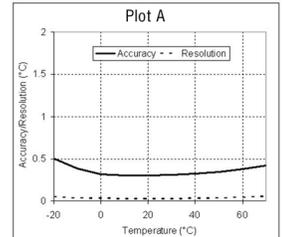
Battery life: 1 year typical use

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).



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