



HOBO U12 Temperature Data Logger - U12-001



Measures:

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

Description:

The HOBO U12 Temperature Data Logger is a single-channel logger for high-accuracy temperature monitoring.

Detailed Specifications:

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

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

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

Sample Rate: 1 second to 18 hours, user selectable

Drift: $0.1^{\circ}\text{C}/\text{year}$ ($0.2^{\circ}\text{F}/\text{year}$)

Response time In airflow of 1 m/s (2.2 mph): 6 minutes, typical to 90%

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

Operating temperature

Logging: -20° to 70°C (-4° to 158°F)

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

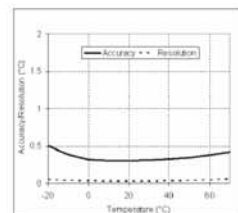
Battery life: 1 year typical use

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

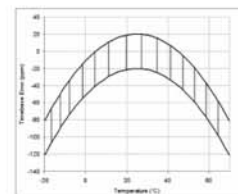
Weight: 46 g (1.6 oz)

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).



Plot A



Plot B

HOBO Data Loggers