



## HOBO® U12-015 Data Logger

### Stainless Temperature (4,900 ft.) Data Logger

The HOBO U12 Stainless Temperature Data Logger is ideal for food, pharmaceutical, autoclave, and other applications where high-accuracy temperature data is critical. With its broad temperature range (-40 to 125C) and food-grade stainless steel housing, the U12 Stainless Temperature Data Logger withstands process conditions from pasteurization to flash freezing and washdown. The U12 Stainless is also ideal for high-temperature or deep underwater applications.



#### Supported Measurements:

Temperature

#### Key Advantages:

- Food-grade 316 Series Stainless Steel
- High-accuracy, extended temperature range
- Suitable for high pressure applications to 2200psi
- Fast readout via direct USB interface
- Compatible with HOBOWare and HOBOWare Pro for logger setup, graphing and analysis

## HOBO U12-015 Data Logger Specifications

**Measurement range:** -40° to 125°C (-40° to 257°F)

**Accuracy:** ± 0.25°C from 0° to 50°C (± 0.45°F from 32° to 122°F), see Plot A in manual

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

**Drift:** 0.05°C/year + 0.1°C/1000 hrs above 100°C (0.09°F/year + 0.2°F/1000 hrs above 212°F)

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

**U12-015:** < 10 minutes, typical to 90%

**U12-015-02:** 2.25 minutes, typical to 90%

### **Response time in water**

**U12-015:** < 3.5 minutes, typical to 90%

**U12-015-02:** 20 seconds, typical to 90%

**Time accuracy:** ± 2 minute per month at 25°C (77°F), see Plot B in manual

**Operating environment:** Air, water, steam, 0 to 100% RH

### **Operating temperature**

**Logging:** -40° to 125°C (-40° to 257°F)

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

**Battery life:** 3 year typical use, factory replaceable

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

**Construction:** Food-grade 316 Series Stainless Steel

### **Weight**

**U12-015:** 72 g (2.5 oz)

**U12-015-02:** 82 g (2.9 oz)

**Logger dimensions:** 17.5 x 101.6 mm (0.69 x 4.00 inches)

**Probe dimensions:** (U12-015-02 only): 4 x 124 mm (0.16 x 4.90 inches)

**Pressure/depth rating:** 2200 psi (1500 m/4900 ft) maximum

**Vibration rating:** Navy spec: NAVMAT P-9492 (non-probe model only)

**NIST certificate:** Available for additional charge; temperature range -30° to 120°C (-22° to 248°F)

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

## Contact Us

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

- ▶ Email [sales@onsetcomp.com](mailto: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 [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-877-564-4377

Onset Computer Corporation  
470 MacArthur Boulevard  
Bourne, MA 02532