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
- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-800-564-4377
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Technical Support (8am to 8pm ET, Monday through Friday)
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