

HOBO U12 Stainless Temperature Data Logger - U12-015

Measures:

Temperature

Qty	1-9	10-99	100+
\$US	\$272	\$253	\$231



Features:

- 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

Contact Onset at 1-800-564-4377

Description:

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.

Detailed Specifications:

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

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

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

Drift: 0.05Â°C/year + 0.1Â°C/1000 hrs above 100Â°C (0.09Â°F/year + 0.2Â°F/1000 hrs above 212Â°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: Â± 2 minute per month at 25Â°C (77Â°F), see Plot B

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

Operating temperature:
 Logging: -40Â° to 125Â°C (-40Â° to 257Â°F)
 Launch/readout: 0Â° to 50Â°C (32Â° to 122Â°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)

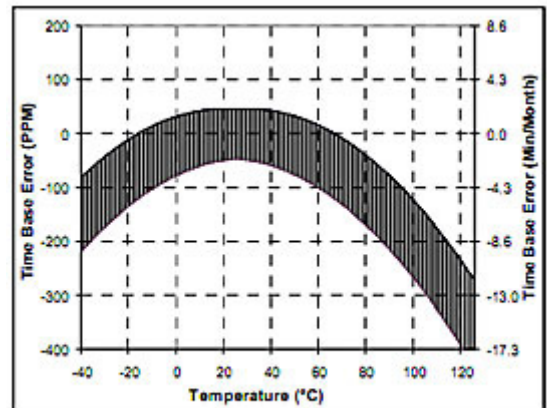
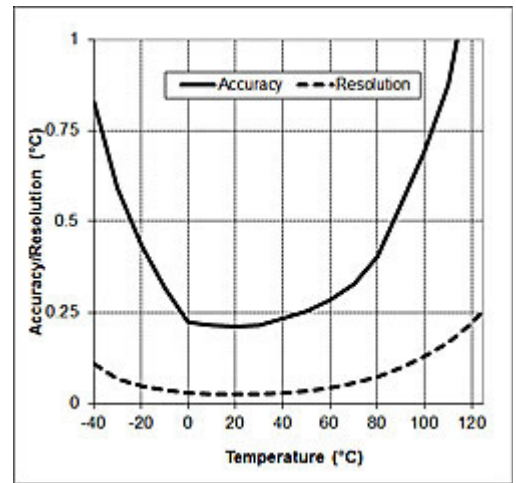
Probe dimensions (U12-015-02 only): 4 x 124 mm (0.16 x 4.90 inches)

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 -30Â° to 120Â°C (-22Â° to 248Â°F)

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



Plot B

HOB0[®] Data Loggers

1-800-LOGGERS