

U24-001



## HOBO Fresh Water Conductivity Data Logger

### Fresh Water

Measures and records conductivity and temperature in streams, lakes, and other freshwater sources; recommended for monitoring aquifers for saltwater intrusion and road and agricultural runoff.

#### Important Information

Requires HOBOWare Pro software and either a U-DTW-1 Waterproof Shuttle or the Base-U-4 Optic USB Base Station for configuration and data offload. Please see compatible items below.

### Supported Measurements

Conductivity/Salinity, Water Temperature

### Features

- Titanium pentoxide coated non-contact sensor provides long life and less measurement drift
- Provides easy access to sensor for cleaning and shedding air bubbles
- HOBOWare Pro software enables start/end-point calibration to compensate for any fouling and provides easy conversion to specific conductance and salinity
- USB optical interface provides high-speed, reliable data offload in wet environments
- Compatible with the HOBO Waterproof Shuttle for easy and reliable data retrieval and transport

### What's in the box

- HOBO U24-001 Conductivity Data Logger
- Communications window protective cap

### 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
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## HOBO Fresh Water Conductivity Data Logger (U24-001) Specifications

<b>Measurements</b>	Actual Conductivity, Temperature, Specific Conductance at 25°C (calculated)
<b>Conductivity Calibrated Measurement Ranges</b>	Low Range: 0 to 1,000 µS/cm Full Range: 0 to 10,000 µS/cm
<b>Conductivity Calibrated Range - Temperature Range</b>	5° to 35°C (41° to 95°F)
<b>Conductivity Extended Ranges</b>	Low Range: 0 to 2,500 µS/cm Full Range: 0 to 15,000 µS/cm
<b>Temperature Measurement Range</b>	-2° to 36°C (28° to 97°F)
<b>Specific Conductance Accuracy (in Calibrated Range)</b>	Low Range: 3% of reading, or 5 µS/cm, and Full Range: 3% of reading, or 20 µS/cm, whichever is greater, using Conductivity Data Assistant and calibration measurements
<b>Conductivity Resolution</b>	1 µS/cm
<b>Temperature Accuracy</b>	0.1°C (0.2°F) at 25°C (77°F)
<b>Temperature Resolution</b>	0.01°C (0.02°F)
<b>Conductivity Drift</b>	Less than 3% sensor drift per year, exclusive of drift from fouling
<b>Response Time</b>	1 second to 90% of change (in water)
<b>Operating Range</b>	-2° to 36°C (28° to 97°F) - non-freezing
<b>Memory</b>	18,500 temperature and conductivity measurements when using one conductivity range; 11,500 sets of measurements when using both conductivity ranges (64 KB total memory)
<b>Sample Rate</b>	1 second to 18 hrs, fixed or multiple-rate sampling with up to 8 user-defined sampling intervals
<b>Clock Accuracy</b>	±1 minute per month
<b>Battery</b>	3.6 Volt lithium battery
<b>Battery Life</b>	3 years (at 1 minute logging)
<b>Maximum Depth</b>	70 m (225 ft)
<b>Weight</b>	193 g (6.82 oz), buoyancy in freshwater: -59.8 g (-2.11 oz)
<b>Size</b>	3.18 cm diameter x 16.5 cm, with 6.3 mm mounting hole (1.25 in. diameter x 6.5 in., 0.25 in. hole)
<b>Wetted Housing Materials</b>	Delrin®, epoxy, stainless steel retaining ring, polypropylene, Buna rubber O-ring, titanium pentoxide (inert coating over sensor)
<b>Environmental Rating</b>	IP68
<b>Description: ce</b>	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).