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HOBO U24-001 Conductivity Data Logger

Product Images

Short Description

The HOBO U24 Conductivity Data Logger is a high-accuracy, cost-effective data logger for measuring conductivity and temperature in streams, lakes, and other freshwater sources. It is ideal for monitoring aquifers for saltwater intrusion and road & agricultural run-off.

Description

This high-accuracy conductivity data logger is a cost-effective way to collect water quality data. The HOBO U24 measures and records both conductivity and temperatures in streams, lakes, and other freshwater sources. This logger is recommended for monitoring aquifers for saltwater intrusion and road and agricultural runoff. This product's open access to its sensor simplifies cleaning and maintenance. The HOBO U24's non-contact sensor minimises measurement errors related to drift. In addition, the logger features software-based drift compensation.

The HOBO U24 Conductivity data logger features a non-contact sensor with a Titanium Pentoxide coating. This coating prevents the sensor from coming in contact with the water, which in turn prevents tarnishing or

corrosion associated with traditional electrode sensors. This sensor coating is also inert, enabling fouling to be easily wiped off the sensor.

Key Features

- 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

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IMPORTANT: This logger 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 options below.

Additional Information

Country of Manufacture	United States
Explanation	The country of origin for this product is the United States. To see the full specifications for this product, please see our product manual found under the Resources tab. **Memory:** 18,500 temperature and conductivity measurements when using one conductivity range; 14,400 sets of measurements when using both conductivity ranges (64kbytes) **Sample rate:** 1 second to 18 hrs, fixed or multiple-rate sampling with up to 8 user-defined sampling intervals **Battery life:** 3 years (@ 1 min logging) **Maximum depth:** 70 m (225') **Operating range:** -2 to 36°C (28° to 97°F) - non freezing **Weight:** 193 gm (6.82 ounces), buoyancy in freshwater: -59.8 gm (-2.11 ounces) **Size:** 3.18 cm diameter x 16.5 cm, with 6.3 mm mounting hole (1.25" diameter x 6.5", ¼" hole) **Calibrated range:** *Conductivity*: Low Range: 0 to 1,000 µS/cm; Full Range: 0 to 10,000 µS/cm - *Temperature*: 5 to 35C (41 to 95F) **Accuracy:** *Conductivity*: 3% of reading, or 5 µS/cm, whichever is greater / *Temperature*: 0.1C (0.2F) **Resolution:** *Conductivity*: 1 uS/cm - *Temperature*: 0.01°C (0.02°F) **Response time:** 1 second to 90% of change
Brand	Onset HOBO
Onset Product Series	U24
Typical applications	Environmental (Outdoor), Field Research, Water Quality
Measurements	Conductivity, Salinity, Temperature

Additional Options

Connectivity Options	HOBO Universal Optic USB Base Station Base-U-4 (includes Couplers)
	Waterproof Optic Data Shuttle U-DTW-1 (requires HOBOWare Pro)
HOBOware Pro Software Options	HOBOware Pro on USB Drive (USB Cable Included)
	HOBOware Pro on CD (USB Cable Included)
	HOBOware Pro - Download Only (USB Cable NOT Included)
Well Cap for Mounting HOBO Loggers in Wells	WELL-CAP-01