

U24-002-C



## HOBO Saltwater Conductivity/Salinity Data Logger Salt Water

A cost-effective data logger for measuring salinity, conductivity, and temperature in saltwater environments with relatively small changes in salinity ( $\pm 5,000 \mu\text{S/cm}$ ).

### 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

- Non-contact sensor provides long life
- Easy access to sensor for cleaning and shedding air bubbles
- Two user-selectable ranges provide measurements from 100 to 55,000  $\mu\text{S/cm}$ .
- Delrin housing will not corrode in saltwater
- HOBOWare Pro software enables start/end-point calibration to compensate for any fouling and provides easy conversion to specific conductance and salinity using the Practical Salinity Scale 1978 (PSS-78)
- USB optical interface provides high-speed, reliable salinity data offload in wet environments
- Compatible with the HOBO Waterproof Shuttle for easy and reliable data retrieval and transport
- Non-contact sensor with titanium pentoxide coating keeps the sensor from coming in contact with the water, thereby preventing tarnishing or corrosion associated with traditional electrode sensors; sensor coating is inert, so fouling can be wiped off easily

### What's in the box

- HOBO U24-002-C Conductivity Data Logger
- Communications window protective cap



## HOBO Saltwater Conductivity/Salinity Data Logger (U24-002-C) Specifications

<b>Measurements</b>	Actual Conductivity, Temperature, Specific Conductance at 25C (calculated), Salinity (calculated using PSS-78, the Practical Salinity Scale 1978)
<b>Conductivity Measurement Ranges</b>	Low range: 100 to 10,000 uS/cm High range: 5000 to 55,000 uS/cm
<b>Conductivity Calibrated Range - Temperature Range</b>	5° to 35°C (41° to 95°F)
<b>Conductivity Extended Ranges</b>	Low range: 100 to 10,000 uS/cm High range: 5000 to 55,000 uS/cm (readings below these ranges reported as 0)
<b>Temperature Measurement Range</b>	-2° to 36°C (28° to 97°F)
<b>Specific Conductance Accuracy (in Calibrated Range using Conductivity Assistant and Calibration Measurements)</b>	Low range: 3% of reading or 50 µS/cm, whichever is greater High range: 5% of reading, in waters within a range of ±3,000 µS/cm; waters with greater variation can have substantially greater error
<b>Conductivity Resolution</b>	2 uS/cm (typical)
<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>	Up to 12% sensor drift per month, exclusive of drift from fouling. Monthly start- and end-point calibration should be used with the HOBOware Conductivity Assistant to achieve the specified Specific Conductance accuracy.
<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 life</b>	3 years (@ 1 min logging)
<b>Maximum depth</b>	70 m (225')
<b>Weight</b>	193 gm (6.82 ounces), buoyancy in freshwater: -59.8 gm (-2.11 ounces)
<b>Size</b>	3.18 cm diameter x 16.5 cm, with 6.3 mm mounting hole (1.25" diameter x 6.5", ¼" hole)
<b>Wetted housing materials</b>	Delrin®, epoxy, stainless steel retaining ring, polypropylene, Buna rubber O-ring, titanium pentoxide (inert coating over sensor) – all materials are suitable for long-term use in saltwater.
<b>Environmental Rating</b>	IP68



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