

W-CT

## Conductivity Sensor

A conductivity and temperature sensor for use with HOBO MX800 Series Water Loggers

### Important Information

Requires a HOBO MX801 or MX802 Data Logger, the HOBObconnect app, and a compatible mobile device or Windows computer. System requirements for the app can be found at the bottom of our HOBObconnect software page.



### Supported Measurements

Conductivity/Salinity, Water Temperature

### Features

- 4-electrode conductivity sensor provides wide measurement range for monitoring freshwater or saltwater
- Conductivity sensor is centrally located to minimize effects from stilling wells or protective guards
- 1" diameter for use in narrow wells (with cable to MX802 above the well)
- Temperature sensor placement near the sensor tip for fast response time
- Specially treated stainless steel holds up in saltwater

### What's in the box

Conductivity sensor

### 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
- Fax 1-508-759-9100

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Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

## Conductivity Sensor (W-CT) Specifications

### Conductivity Measurements

<b>Measurement Range</b>	Electrical conductivity and specific conductance: 0 to 100,000 $\mu\text{S}/\text{cm}$ Salinity using PSS-78: 2 to 42 PSU Total Dissolved Solids (TDS): 0 to 100,000 mg/L
<b>Calibrated Range</b>	Electrical conductivity: 50 to 80,000 $\mu\text{S}/\text{cm}$
<b>Accuracy</b>	5° to 35°C (41° to 95°F) Conductivity: +/-2% or 15 $\mu\text{S}/\text{cm}$ whichever is greater Salinity: +/-2% of reading or 0.1 PSU, whichever is greater
<b>Resolution</b>	Conductivity: 0.1 $\mu\text{S}/\text{cm}$ from 0 to 1,000 $\mu\text{S}/\text{cm}$ 1 $\mu\text{S}/\text{cm}$ from 1,000 to 10,000 $\mu\text{S}/\text{cm}$ 10 $\mu\text{S}/\text{cm}$ from 10,000 to 100,000 $\mu\text{S}/\text{cm}$ Salinity: 0.01 PSU TDS: 0.1 mg/L
<b>Response Time</b>	1 second to 90% at a stable temperature

### Temperature Measurements

<b>Range</b>	-20° to 50°C (-40° to 122°F), non-freezing water
<b>Accuracy</b>	$\pm 0.15^\circ\text{C}$ ( $\pm 0.27^\circ\text{F}$ ) from 0° to 50°C (32° to 122°F)
<b>Resolution</b>	0.01°C at 25°C (0.018°F at 77°F)
<b>Response Time</b>	3 minutes to 90% in water (typical)
<b>Drift</b>	<0.1°C (0.18°F) per year

### Sensor

<b>Dimensions</b>	2.5 cm (1 inch) diameter, 17.4 cm (6.87 inches) length
<b>Weight</b>	144 g (5.08 oz)
<b>Wetted Materials</b>	Passivated 316 Stainless steel housing rated for use in saltwater, Viton and Buna-N O-rings, PET sensor connector Conductivity sensor: PET, platinum plating on electrodes Note: Sensor should be mounted so that it is not in contact with other metals
<b>Environmental Rating</b>	IP68; Waterproof to 100m

