

# WQ301 Conductivity Sensor

Rugged Water Conductivity Sensor



## Features

- Measure conductivity at any depth
- Fully encapsulated electronics
- 4-20 mA output
- Marine grade cable with strain relief
- Stainless steel housing

## Applications



Ideal for stream and lake monitoring, aquaculture studies, baseline analyses, mitigation monitoring, and other environmental applications.

## Description

Global Water's WQ301 Conductivity Sensor is a rugged and reliable water conductivity measuring device. The WQ301 offers a rapid and non-destructive way to measure the ion content in a solution. The conductivity sensor is molded to 25' of marine grade cable, with lengths up to 500' available upon request. The conductivity sensor's output is 4-20 mA with a three wire configuration. The unit's electronics are completely encapsulated in marine grade epoxy within a stainless steel housing.

## Record and Control

As with all of Global Water's 4-20 mA output sensors, you can add recording and controlling capabilities to the WQ301 Conductivity Sensor with the GL500 Datalogger and PC300 Controller. The GL500 connects to the conductivity sensor's 4-20 mA output to record data. Global Water's PC300 Controller connects to the conductivity sensor's output to control pumps or alarms.

## Specifications

Output	4-20 mA
Ranges	0 to 500, 0 to 2,000, 0 to 5,000, 0 to 10,000, 0 to 20,000, 0 to 40,000 $\mu$ S
Accuracy	1% full scale
Maximum Pressure	50 psi
Operating Voltage	12 VDC ( $\pm$ 5%)
Current Draw	0.8 mA plus sensor output
Warm-up Time	3 seconds minimum
Operating Temperature	-40° to +55°C
Temperature Compensation	2% per °C
Electrodes	316 stainless steel
Size of Probe	Open Water: 1" dia. x 12" long (3.175cm dia. x 30.5cm) Online: 2.5" dia. x 15.5" long (6.35cm dia. x 39.4cm)
Weight	Open Water: 8 oz (227 g) Online: 22 oz (624 g)

## Ordering & Options

### Conductivity Sensors for Open Water<sup>1</sup>

Order No.	Conductivity Range ( $\mu$ S)
WQ301A	0 to 5,000
WQ301B	0 to 10,000
WQ301C	0 to 20,000
WQ301D	0 to 2,000
WQ301E	0 to 40,000
WQ301F	0 to 500

1) Sensors include 25' of cable.

### Online Conductivity Sensors<sup>2</sup>

Order No.	Conductivity Range ( $\mu$ S)
WQ301A-O	0 to 5,000
WQ301B-O	0 to 10,000
WQ301C-O	0 to 20,000
WQ301D-O	0 to 2,000
WQ301E-O	0 to 40,000
WQ301F-O	0 to 500

2) Online sensors include 1-1/4" NPT thread and 25' of cable.

### Cable

Order No.	Description
WQEXC	Extra Sensor Cable, per foot (up to 500')

Please call us for calibration standards.



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