



STs Series Conductivity

The STs Series Conductivity makes **your job easier** by providing years of trustworthy conductivity and temperature data via noise-resistant 4-20 mA signals. A stable 4-cell electrode covered by an anti-fouling guard assure **long periods of reliable unmanned operation**. In addition, our noise-reduction technology prevents ground loops and other forms of electrical interference for **consistently accurate measurements**.

A narrow diameter (0.75" or 1.9 cm) and **fully sealed, submersible design** allows the sensor to **go anywhere** you need to collect data while the durable, chemical-resistant housing and Kevlar-reinforced® cable ensure **many years (10+) of operation**, even in polluted environments.

Highlighted Features

- 4-cell electrode measuring conductivity, total dissolved solids (TDS), or salinity (6-42 PSU)
- Stable electrode with anti-fouling guard
- Secondary 0-50°C temperature sensor
- Narrow diameter (0.75 inches or 1.9 cm)
- Isolated to prevent electrical interference and protect connected devices
- Durable, chemical-resistant housing and cable
- Fully submersible
- Low power 4-20 mA signals

Ranges available*:

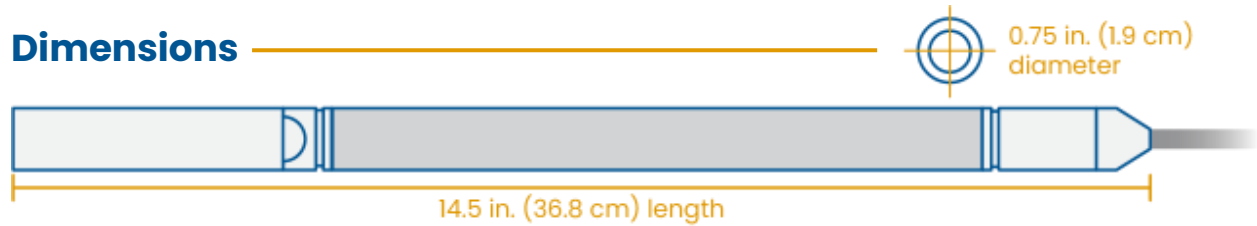
- 0-500 $\mu\text{S}/\text{cm}$
- 0-1000 $\mu\text{S}/\text{cm}$
- 0-5000 $\mu\text{S}/\text{cm}$
- 0-10,000 $\mu\text{S}/\text{cm}$
- 0-50,000 $\mu\text{S}/\text{cm}$
- 0-100,000 $\mu\text{S}/\text{cm}$

*Custom ranges available upon request

Applications

- Groundwater Monitoring
 - Saltwater intrusion
 - Agricultural Runoff
 - Mining Pollution
- Industrial Effluent Monitoring
- Wastewater Treatment
- Environmental Remediation
- Aquaculture

Dimensions



Specifications

Conductivity Sensor

Output	4-20 mA
Conductivity Range	0-100,000 μ S (multiple ranges available)
Electrode Type	4-cell
Transmitter Type	2-wire
Automatic Temperature Compensation	2% per $^{\circ}$ C
Power Supply Voltage	8-40 VDC
Response Time	95% < 5 seconds
Pressure Range	0-70 psi
Wetted Materials	316 SS, Delrin [®] , Viton [™] , PVDF
Length	14.50 in (36.83 cm)
Width	0.75 in (1.90 cm) maximum
Weight (No cable)	0.50 lbs (0.227 kg)
Linearity	\pm 1.00% of full scale*
Accuracy	\pm 1.00% of full scale*
Sensitivity	\pm 0.05% of full scale

*After proper calibration

Temperature Sensor

Output	4-20 mA
Temperature Range	0-50 $^{\circ}$ C
Accuracy	\pm 1 $^{\circ}$ C
Linearity	\pm 0.5 $^{\circ}$ C
Power Supply Voltage	7-40 VDC

Cable

Cable Material	Polyurethane
Type	4 conductor, Kevlar [®] reinforced, water blocked, shielded, twisted-pair wiring
Maximum Distance	3 miles
Resistance per 1000 ft (304.8 m)	26 Ohms
Replaceable?	Yes

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