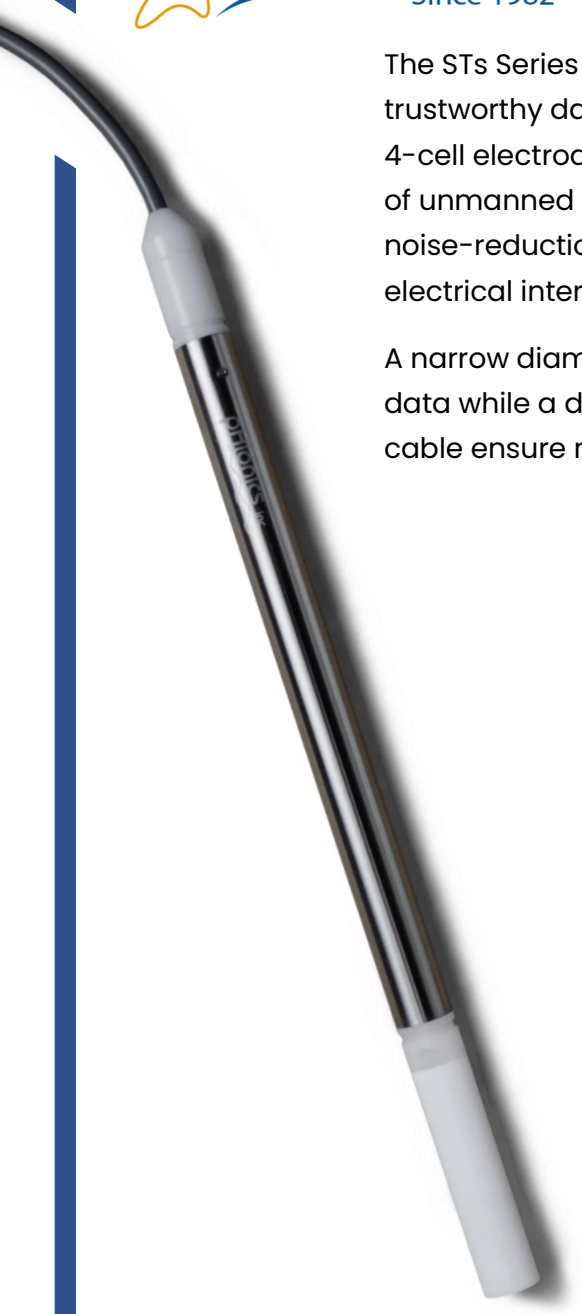
STs Series Conductivity



The STs Series Conductivity makes your job easier by providing years of trustworthy data collection wherever you need it. The sensor uses a stable 4-cell electrode design covered by an anti-fouling guard for long periods of unmanned operation. In conditions where other sensors struggle, our noise-reduction technology prevents ground loops and other forms of electrical interference for consistently accurate measurements.

A narrow diameter (0.75") lets the sensor go anywhere you need to collect data while a 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
- Low power 4-20 mA signals

Ranges available*:

- 0-1000 µS/cm
- 0-5000 µS/cm
- 0-10,000 µS/cm
- 0-50,000 µS/cm
- 0-100,000 µS/cm

**Custom ranges available upon request*

Applications

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

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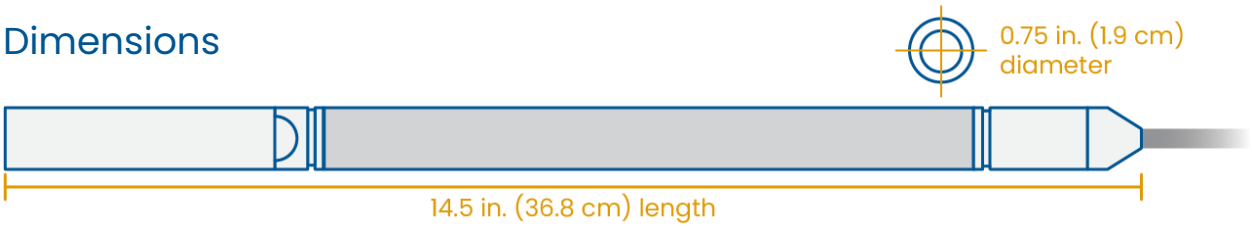
Dimensions



Specifications

Conductivity Sensor

Output	4-20 mA
Conductivity Range	0-100,000 µS
Electrode Type	4-cell
Transmitter Type	2-wire
Automatic Temperature Compensation	2% per °C
Power Supply Voltage	8-40 VDC
Response Time	95% < 5 seconds
Submersion Pressure Range	0-70 psi
Wetted Materials	316 SS, Titanium, 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	± 1.00% of full scale*
Accuracy	± 1.00% of full scale*
Sensitivity	± 0.05% of full scale

*After proper calibration

Temperature Sensor

Output	4-20 mA
Temperature Range	0-50°C
Accuracy	± 1°C
Linearity	± 0.5°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

Kevlar® is a registered trademark of DuPont™. Viton™ is a trademark of Chemours.

CE

www.pHionics.com

For Orders or Questions:

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