

STs Series™ ORP (redox)

Highlighted Features

- Replaceable electrode with platinum sensing element measuring -1000 to +1000 mV oxidation-reduction potential (ORP)
- Large reference half-cell to reduce calibration frequency
- Secondary 0-50°C temperature sensor
- 2-wire, 4-20 mA analog outputs compatible with wide range of dataloggers or remote telemetry units (RTU)
- Narrow diameter (0.75 inches or 1.9 cm) for insertion down pipes or boreholes
- Low power usage

Ranges available:

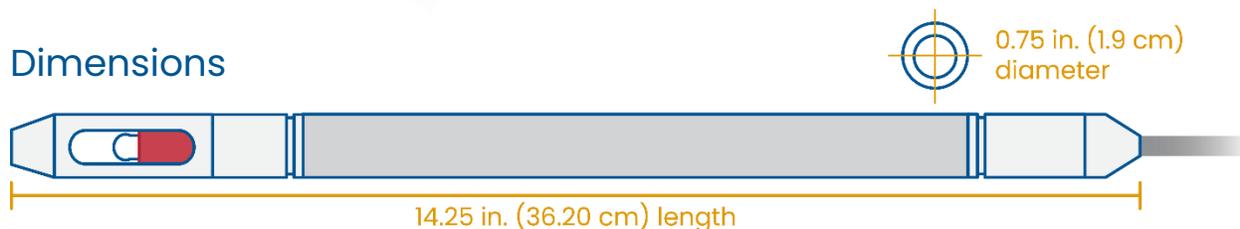
- -1000 to +1000 mV
- -500 to +500 mV
- -1000 to +0 mV
- +0 to +1000 mV

Applications

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

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Dimensions



Specifications

ORP Sensor

Output	4-20 mA
ORP (redox) Range	-1000 to +1000 mV
Operating Temperature	0-70°C
Pressure Range	0-70 psi
Electrode Type	Platinum sensing element, silver/silver chloride gel-filled reference
Transmitter Type	2-wire
Automatic Temperature Compensation	None
Isolation	600 VDC
Power Supply Voltage	8-40 VDC
Warm-up Time	2 seconds
Response time	95% < 20 seconds
Wetted Materials	316 Stainless Steel, Delrin®, Viton™, epoxy
Length	14.25 in (36.20 cm)
Width	0.750 in (1.9 cm) maximum
Weight (No cable)	0.50 lbs (0.227 kg)
Linearity	± 4 mV
Accuracy	± 4 mV*
Sensitivity	± 1 mV
Stability	± 2 mV
Repeatability	± 10 mV

*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

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For Orders or Questions:

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