



STs Series pH

The STs Series pH water quality sensor makes **your job easier** by providing years of trustworthy pH and temperature data via noise-resistant 4–20 mA signals. The sensor has a large, double junction reference electrode for stable measurements over **long periods of 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** lets the sensor go anywhere you need to collect data. The durable, chemical-resistant housing and Kevlar®-reinforced cable ensure **many years (10+) of operation**, even in polluted environments.

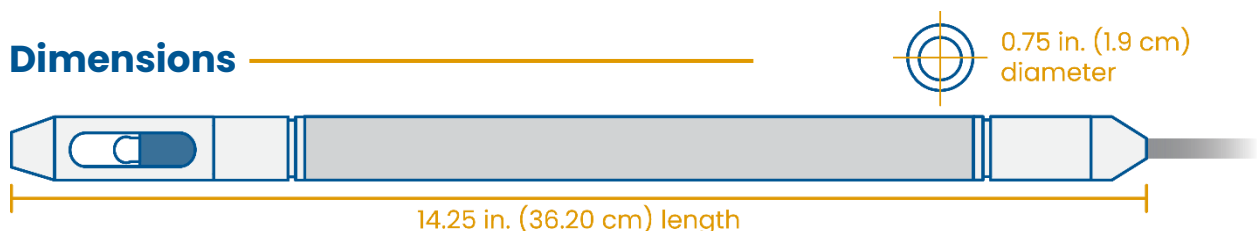
Highlighted Features

- Large gel-filled, double-junction electrode providing stable 0–14 pH measurements for long periods of time.
- 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

Applications

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

Dimensions



Specifications

pH Sensor

Output	4-20 mA
pH Range	0-14 pH
Operational Temperature Range	0-70°C
Electrode Type	Silver/silver chloride, double junction, gel-filled, replaceable
Transmitter Type	2-wire
Submersion Pressure Range	0-70 psi
Automatic Temperature Compensation	0-70°C
Isolation	600 VDC
Power Supply Voltage	8-40 VDC
Warm-up Time	2 seconds
Response time	95% < 5 seconds
Wetted Materials	316 Stainless Steel, PVDF, Viton™, glass
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	±0.014 pH*
Accuracy	±0.014 pH*
Sensitivity	±0.01 pH
Stability	±0.03 pH per year

*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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