

## STs Series™ pH

### Highlighted Features

- Combination double-junction electrode measuring 0 to 14 pH
- 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 groundwater monitoring applications
- Low power usage

### Ranges available:

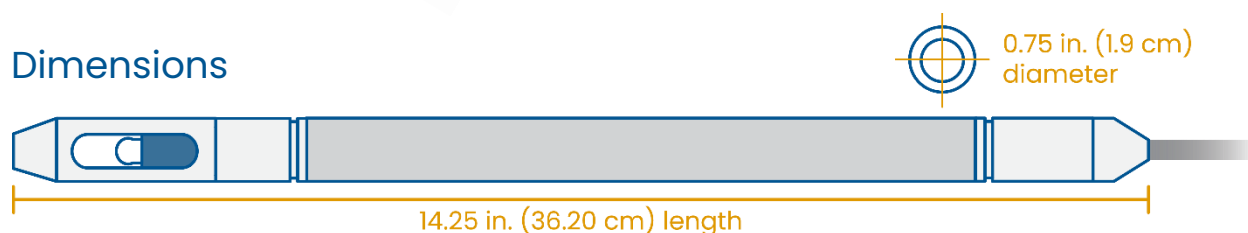
- 0–14 pH
- 6–11 pH

### Applications

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

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### Dimensions



## Specifications

### pH Sensor

<b>Output</b>	4-20 mA
<b>pH Range</b>	0-14 pH
<b>Operational Temperature Range</b>	0-70°C
<b>Electrode Type</b>	Silver/silver chloride, double junction, replaceable gel electrode
<b>Transmitter Type</b>	2-wire
<b>Pressure Range</b>	0-70 psi
<b>Automatic Temperature Compensation</b>	0-70°C
<b>Isolation</b>	600 VDC
<b>Power Supply Voltage</b>	8-40 VDC
<b>Warm-up Time</b>	2 seconds
<b>Response time</b>	95% < 5 seconds
<b>Wetted Materials</b>	316 Stainless Steel, Delrin®, Viton™, glass, epoxy
<b>Length</b>	14.25 in (36.20 cm)
<b>Width</b>	0.750 in (1.9 cm) maximum
<b>Weight (No cable)</b>	0.50 lbs (0.227 kg)
<b>Linearity</b>	±0.014 pH*
<b>Accuracy</b>	±0.014 pH*
<b>Sensitivity</b>	±0.01 pH
<b>Stability</b>	±0.03 pH per year

\*After proper calibration

### Temperature Sensor

<b>Output</b>	4-20 mA
<b>Temperature Range</b>	0-50°C
<b>Accuracy</b>	+/- 1°C
<b>Linearity</b>	+/- 0.5°C
<b>Power Supply Voltage</b>	7-40 VDC

### Cable

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

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[www.pHionics.com](http://www.pHionics.com)

### For Orders or Questions:

[www.pHionics.com](http://www.pHionics.com)

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