



Fast-Response pH Sensor

Amplified Field Performance for 6-Series Sondes

Slope and response time of pH sensors can be affected by contamination in the connector. Over time, microscopic amounts of dirt, grease, and some moisture can collect in the connector. This not only affects the sensor's slope but also slows its response time. Low conductivity and cold temperatures often make this situation worse. Most field users notice this problem only occasionally, usually when taking pH measurements in water with lower conductivity than the pH buffers.

To address your real-life operating conditions, YSI has installed signal conditioning electronics within the pH sensor to improve response and increase stability over standard pH sensors. This design has its own power supply, making the 6589FR backwards compatible with every 6-Series sonde with a field-replaceable pH sensor.

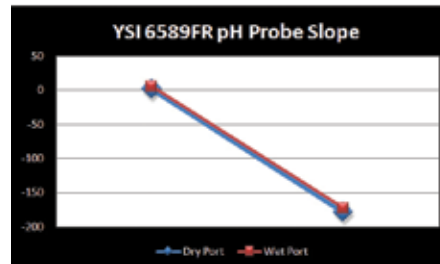
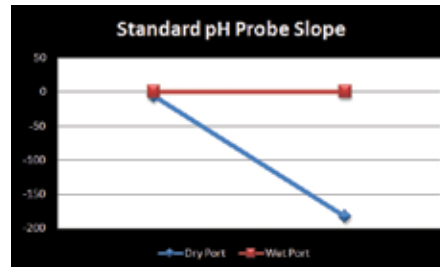


The YSI 6589 pH Sensor uses signal conditioning electronics and on-board power supply to provide quick readings in cold and LIS waters

Strengths of YSI's Fast-Response pH Sensor

- Faster response time in sampling and profiling applications
- Maintains fast response time in Low Ionic Strength (LIS) and cold waters
- Maintains fast response time throughout life of sensor
- Stable readings and like-new performance in instruments with aging or contaminated connectors

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When standard pH sensor connectors and instrument ports are exposed to moisture, pH slope can be affected (top). However, the 6589 pH sensor maintains stable readings even when connectors are exposed to moist/wet conditions (bottom).



To order, or for more information, contact YSI

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Yellow Springs, Ohio Facility

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6589 Fast-Response pH Sensor Specifications

Range	0 to 14 units	Warranty	1 year
Resolution	0.01 unit	Expected Life of Electrode	12-18 months
Accuracy	±0.2 unit	Battery Life	2 years
Response Time	T95<10 seconds in 800 µS water	Operating Temp Range	-5 to 50°C (23 to 122°F)
		Storage Temp Range	-5 to 50°C (23 to 122°F)

How to Order

Item Number	Description
606589	YSI 6589 Fast-Response pH Sensor
655488	Extended Length Calibration Cup Sleeve for 6820/6820 V2 sonde. 6.125 inches long. Can use calibration cup bottom from shorter calibration cup.
655264	Optional Sonde Guard for 600XL/600XLM sonde. Can use with weight from standard 600XL or 600XLM guard.
655521	Extended Calibration Cup Sleeve for 600XL/600XLM sonde. Can use calibration cup bottom from shorter calibration cup.

Considerations when Ordering the 6589 pH Sensor

- Fits all 6600/6600 V2 sonde guards and calibration cups
- Fits all 6820/6920 and 6820/6920 V2 sonde guards, requires pH calibration in separate container or use of extended cal cup sleeve (#655488)
- Can be used in 600XL and 600XLM sondes with optional sensor guard (#655264) and calibration cup (#655521)
- Fits 6600EDS sonde but *cannot* be used with the wiper brush
- *Does not* fit 600XL V2 and 600XLM V2 sondes



Protect the 6589 pH Sensor from biofouling by using

- YSI's Copper Tape (#616189)
- C-Spray Protective Solution (#616290)
- Anti-fouling Screen (#616270)

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