



Amplified pH and pH/ORP Sensors

Pre-Amplified Sensors Ideal for Certain Applications

The new pH and combination pH/ORP sensors have an internal, battery-powered pre-amplifier. The sensors include pH only sensors for the YSI Model 556 and for the YSI Pro Series products. In addition, the combination pH/ORP sensor is also available for the 556 or Pro Series instruments.

Some advantages of using an amped pH or pH/ORP sensor include:

- Elimination of potentially erratic readings in high static situations
- Improved sensitivity and stability in applications with very cold waters and for applications requiring long cable lengths
- Best option for applications that require long durations in the field where there is potential for changing sensors in adverse conditions exposing the sensor connectors to moisture
- Battery life in the sensor can last >2 years if used and stored properly



The new sensors are available as sensors only or as a kit with the sensor and an extension adapter for the calibration cup and probe guards for the 556 and dual port Pro Series cables.

Take Advantage of YSI's New Sensors

The amped pH and pH/ORP sensors are designed to fit on the YSI 556 cables and current YSI Pro Series cables that will measure pH or ORP. The current pH and ORP probes are still available but the amped sensors are now an option.

A few points to keep in mind:

- The amped sensors are approximately 0.75 inches (1.91 cm) longer
- To accommodate the new length on cal cups and probe guards, there is an extension adapter to place on the cable bulkhead (not necessary if using only the *Quattro* cable on the Pro Plus instrument)
- Any *Pro10* or *Pro1030* Pro Series cables that have a stainless steel probe guard will automatically ship with a slightly longer probe guard after May 1, 2011
- All flow cells work normally with the new sensors



YouTube™

Check out the informational video at [YouTube.com/ysiinc](https://www.youtube.com/ysiinc) or on the *Pro Plus* and *556* product pages on YSI.com.

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Specifications are subject to change. Please visit YSI.com to verify all specs.



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YSI Amplified pH Sensor Specifications

	Range	Resolution	Accuracy
1001A, 1003A, 5564A and 5565A Sensors	0 to 14 units	0.01 unit	±0.2 unit

YSI Amplified pH Sensor Additional Specifications

Type	Combination electrode with ribbon junction and glass
Reference Electrode	Gel-filled
Operating Temp Range	-5 to 70°C (23 to 158°F)
Storage Temp Range	-5 to 50°C (23 to 122°F)
Operating Pressure Range	0 to 100 psi
Response Time	<3 seconds to 95% from soak solution to pH7 at 25°C
Shelf Life	1 year
Pre-Amplifier Battery Life	~2.5 years with proper use and storage
Warranty	1 year

YSI Amplified pH/ORP Combo Sensor Specifications (pH specs same as above)

	Range	Resolution	Accuracy
1003A and 5565A Sensors	-999 to 999 mV	0.1 mV	±20 mV

YSI Amplified pH/ORP Combo Sensor Additional Specifications

Type	Combination electrode with ribbon junction and platinum button
Reference Electrode	Gel-filled
Operating Temp Range	-5 to 70°C (23 to 158°F)
Storage Temp Range	-5 to 50°C (23 to 122°F)
Operating Pressure Range	0 to 100 psi
Response Time	<3 seconds to 95% from soak solution to quinhydrone-saturated pH7 at 25°C
Shelf Life	1 year
Pre-Amplifier Battery Life	~2.5 years with proper use and storage
Warranty	1 year

How to Order

Item / Model Number	Description
655564 / 5564A	Amplified pH sensor only for the 556
655561 / 5564A Kit	Amplified pH sensor and extension adapter for the 556
655565 / 5565A	Amplified pH/ORP sensor only for the 556
655562 / 5565A Kit	Amplified pH/ORP sensor and extension adapter for the 556
605323 / Pro1001A	Amplified pH sensor only for the Pro Series
605216 / Pro1001A Kit	Amplified pH sensor and extension adapter for the Pro Series
605324 / Pro1003A	Amplified pH/ORP sensor only for the Pro Series
605050 / Pro1003A Kit	Amplified pH/ORP sensor and extension adapter for the Pro Series
655563*	Extension adapter for 556 and for Pro Series dual port cables 1010 and 1020
605702**	Lengthened stainless steel probe guard for Pro Series single port cables 10 and 1030

* No extension adapter is necessary for the Quatro Cable. 655563 is included in the kits and doesn't need to be ordered separately.

** Order if using an older Pro10 or Pro1030 cable (anything prior to May 1, 2011). 605702 included when purchasing a new Pro10 or Pro1030 cable after May 1, 2011 and doesn't need to be ordered separately.