



Description

The new and improved one-inch PTX sensor is the latest addition to the legendary AquaMetrix differential sensor family. Our smart sensors maintain their robust design, but leverage the analytical power of our controllers, fully integrated. The 1" TX version also comes in distinctive blue PPS (Ryton®) for superior resistance to chemical and mechanical weathering.

The advantages of digital output sensors are compelling. They include reduced noise, higher immunity from stray voltages, calibration stored in the sensor, and the elimination of intermediary transmitters.

The new TX-series incorporates all the benefits of differential measurement found in other models of the 60 and 65 series, field-proven in thousands of installations.

The replaceable salt bridge has been completely redesigned for this series - no special tools are required! Simply grab a #3 Philips screwdriver or 1/2" wrench and rejuvenate your sensor in seconds.

The improved, universal flat-faced glass process electrode is specially designed for tough applications. A larger surface area guarantees quick readings and outstanding performance, and a self-cleaning flush fit when installed inline ensures upkeep will be minimal. The process electrode is

encased in a protective layer of PPS offering increased resistance to physical damage.

Aquametrix pH sensors are designed to simply and reliably ensure water quality compliance. Aquametrix pH sensors provide accurate measurements under conditions that often render conventional pH sensors inoperable.

Differential measurement technology uses two glass electrodes to make the measurement differentially with respect to a third metal electrode. The resulting true differential measurement has several advantages over conventional sensors: ground loop problems are virtually eliminated and the sensor can be restored to factory condition at modest cost by replacing the salt bridge and reference solution.

The Automatic temperature compensation is improved through the use of a thermistor at the tip of the probe, providing rapid response for process temperature variations.

The sensor is compatible with any off-the-shelf 1" NPT fittings and serves as a drop-in replacement in fittings designed for the previous iteration.

You no longer need to sacrifice precision for longevity with Aquametrix TX sensors.

Features

- Low cost of ownership
- Stable and Repeatable performance
- Flat face electrode is standard
- Industrial Grade Quality
- Chemically resistant PPS body
- Universal style: flow-through and submersion
- Analog (4-20 mA) or Digital (RS485) Output
- Temperature Compensation
- Replaceable Salt Bridge
- Quick Ship Available

Applications

- Process Control
- Industrial and Municipal Waste Treatment and Neutralization
- Fume Scrubbers
- Plating
- Power Generation
- Food and Beverage
- Aquaculture
- Agriculture

**Smart Inside.
Tough Outside.**

AquaMetrix
by  Water Analytics

100 School Street
Andover, MA 01810
978-749-9949

Toll free 855-pH Probe
(855-747-7623)

www.WaterAnalytics.net

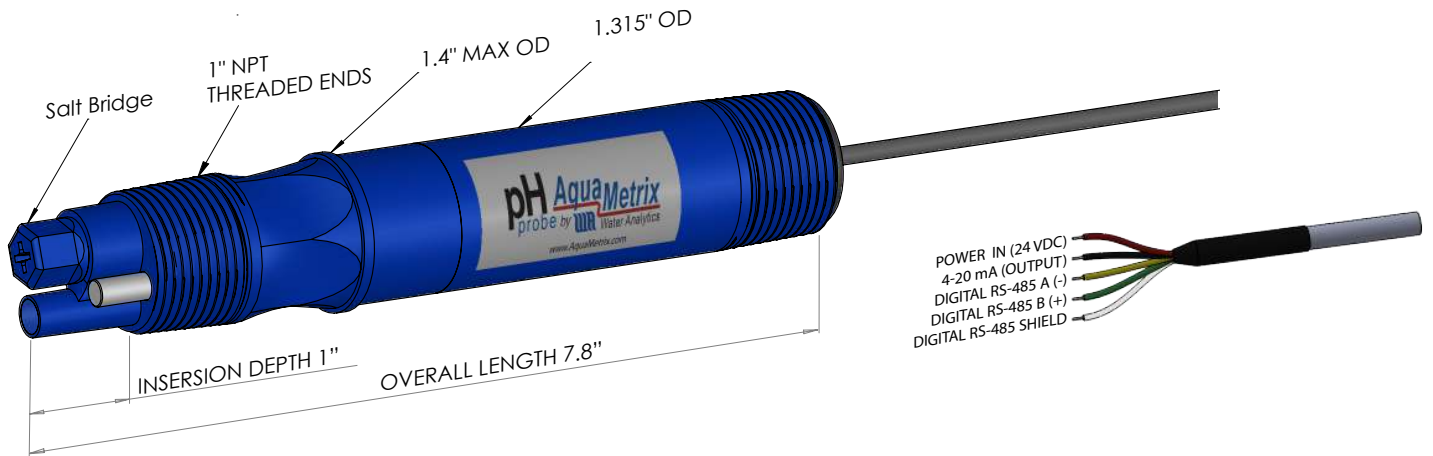
N110-159 R3

AquaMetrix PTXR5 pH Differential Smart Sensor

Technical Data

Linear Measurement Range	1 to 12 pH Response at pH<1 or >12 is non-linear (<59.2 mV/pH @ 25 °C)	Temperature	Automatic pH compensation Optional temperature output (RS-485)
Wetted Materials	Ryton® (PPS), Ceramic, Glass, Viton®, Titanium, *PVC (cable jacket), *Santoprene® 101-55 (strain relief) *when fully submerged.	Stability	0.03 pH per day, non-cumulative
Temperature Limits	-5 to 75°C (23 to 167°F)	Sensitivity	0.01 pH
Maximum Pressure	100 psig at 150°F (65°C)	Accuracy	± 0.02 pH
Maximum Flow Rate	10 ft./sec maximum (3 meters/sec) but lower in water with low conductivity water or suspended solids	Sensor Cable	Default length 15ft (4.6m) 2-wire loop-powered 4-20mA, 3-wire optional RS-485 connection

Dimensions



Related Products

ANALYZERS

AM-2300 Multi-Input Controller

ACCESSORIES

- AM-SBK3-R5 Salt bridge kit (3 pack) for R5 sensor
- AM-SBK10-R5 Salt bridge kit (10 pack) for R5 sensor
- AM-CFT-R5 1.5" compression fitting for R5 sensor
- AM-TEE-5 2" Union TEE with quick disconnect adapter
- AM-ARM-5 Submersion Arm
- AM-PTR-5 Electrode Protector
- AM-JET-5 Jet Cleaner
- AM-SFL-5 2" Sanitary Flange
- AM-JB2 NEMA 4X Junction Box
- AM-CBL Universal Extension Cable

Ordering Information

PTXR5-015

Smart Analog output (4-20mA) or Digital (RS485) industrial differential pH sensor for flow-through or submersion application. Compatible with AM-2300 and any PLC with 4-20mA input. Standard 15ft cable.

CALIBRATION SOLUTIONS

- AM-PH4-1P pH 4 Buffer, 1 pint (500 mL)
- AM-PH7-1P pH 7 Buffer, 1 pint (500 mL)
- AM-PH10-1P pH 10 Buffer, 1 pint (500 mL)