



Features

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

Description

The new and improved 1.5-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 1.5 inch TX version also comes in a sleek Black 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 CPVC salt bridge rejuvenates your sensor in seconds.

The improved, spherical glass process electrode is specially designed for tough applications. A larger surface area guarantees quick readings and outstanding performance. The second electrode is immersed in a pH 7 buffer encapsulated in the sensor.

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 1.5 inch 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.

Applications

- Process Control
- Industrial and Municipal Water Treatment and Neutralization
- Fume Scrubbers
- Mining
- Power Generation
- Food and Beverage
- Pharmaceutical Industry
- Pulp and Paper

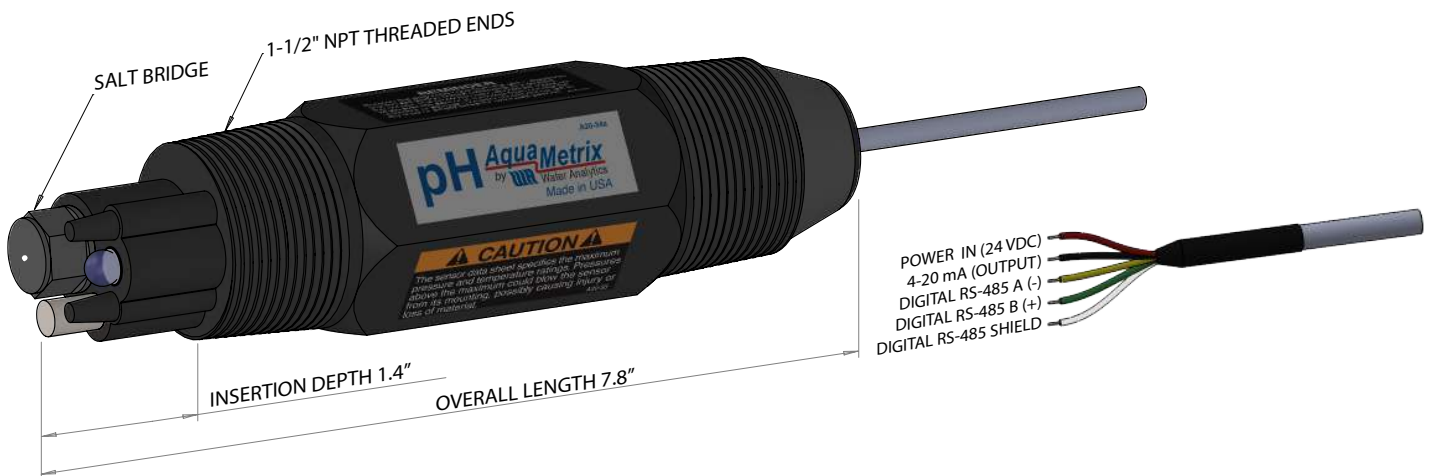
**Smart Inside.
Tough Outside.**

AquaMetrix PTXR8 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), CPVC, Ceramic, Glass, Viton®, Titanium, *PVC (cable jacket), *Dynaflex (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-JB2 NEMA 4X junction box
- AM-TEE-8 2" Union Tee with adaptor for -8 series
- AM-SFL-8 2" Sanitary Flange for -8 series
- AM-ARM-8 Submersion hardware for tank mounting
- AM-JET-8 Jet cleaner for -8
- AM-PTR-8 Electrode protector for -8
- AM-SBK3-R8 Salt Bridge Kit, package of 3
- AM-SBK10-R8 Salt Bridge Kit, package of 10
- AM-CBL Extension cable

Ordering Information

PTXR8-015

Smart Analog output (4-20mA) or Digital (RS485) industrial differential pH sensor for flow-through 1-1/2" NPT or submersion application. Compatible with AM-2300 and any PLC with 4-20mA input. Standard 15 ft 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)