

Description

These industrial combination pH sensors use the conventional measurement technique, employing a process pH glass electrode which is compared to a reference electrode in KCL solution. For relatively clean water they are an economical alternative to our flagship differential 60/65 series probe.

Our combination sensors have been completely modernized with several major upgrades.

A new, more durable CPVC shell material provides excellent chemical resistance, and Pt1000RTD temperature element is now a standard option. The temperature element is now embedded in the glass electrode for a faster response. One cable now includes both pairs of wires for process and temperature output.

The reference chamber now contains a rugged ceramic double junction, replacing the single junction used in the past. This results in an approximate doubling of the sensor's lifespan.

The convertible design of these probes allows them to be used in both flow-

through and submersion applications, minimizing specialized inventory requirements.

These models are installed using a standard 3/4" MNPT compression fitting, giving this sensor drop-in compatibility with any off-the-shelf 3/4" tee.

With this design, the probe does not screw into the process line, but is simply inserted through the compression fitting. No more twisted cables means probe cleaning and system calibration has never been easier.

The 585 series probes can be directly connected to the AM-2250 TX transmitter or AM-2250 AM-2252 controllers, as well as to all legacy lines of Aquametrix analyzers. For ease of installation, the analyzer must be located within reach of the 15 ft (4.5 m) standard sensor cable. Non-standard cable lengths are also available.

For industrial or municipal wastewater applications, AquaMetrix differential sensors still provide the lowest lifetime cost of ownership.

Features

- Industrial-grade quality
- Pt1000Ω RTD temperature element included
- Double junction for longer life
- Temperature rated to 75°C
- Variable insertion depth - 0" to 3.75"
- Compact: mounts in 3/4" NPT
- Chemically resistant CPVC body
- CPVC compression fitting included
- Universal style: flow-through and submersion
- Easy in, easy out: no special tools and no twisted cables!

Applications

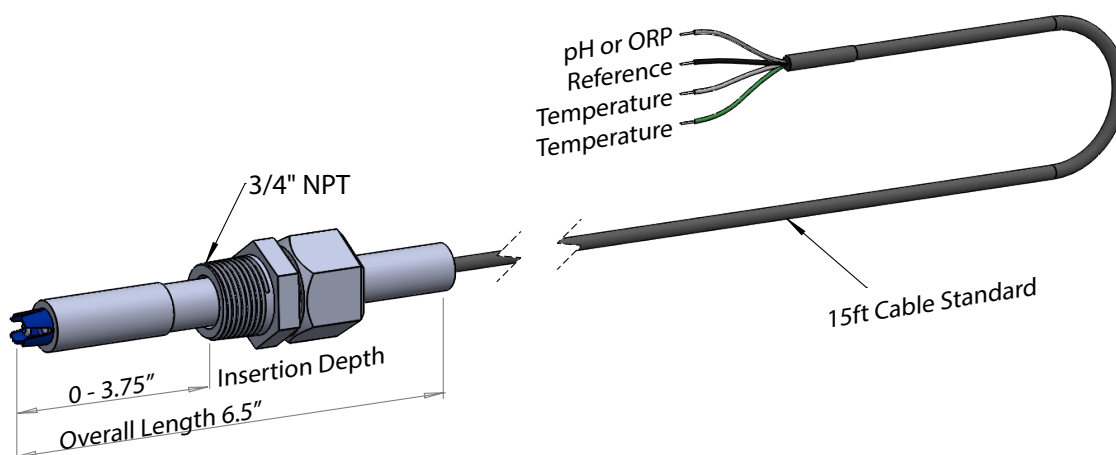
- Process Control
- Industrial and Municipal Water Treatment
- Circuit Board Manufacturing
- Mining
- Power Generation
- Food and Beverage
- Aquaculture
- Agriculture

Model P585T1 Combination Style pH Sensors

Technical Data

Measuring Range	pH	0 to 14 pH (Consult factory for applications below 2 or above 12).	Stability	pH	0.05 pH per day, non-cumulative
Wetted Materials		CPVC body, polycarbonate, ceramic junction, silicone rubber, glass electrode, EPDM Optional: teflon for HF-resistant pH, antimony and epoxy for HFA	Sensitivity	pH	0.01 pH unit
Temperature Limits		23 to 167°F (-5 to 75°C) at atmospheric pressure	Accuracy	pH	± 0.02 pH
Maximum Pressure		100 psig at 150°F (65°C)	Sensor Cable		Default length 15 ft (4.5m) tinned wires Optional BNC adapter Up to 50ft cable available
Maximum Flow Rate		10 ft. (3 meters) per second			
Temperature Compensation		Standard Pt1000Ω RTD			

Dimensions



Related Products

ANALYZERS

AM-2252	Dual-Input Controller
AM-2250	Multi-Parameter Controller
AM-2250TX	Multi-Parameter Transmitter

ACCESORIES

AM-CCF-AS	CPVC 3/4" compression fitting
AM-SCF-AS	SS 3/4" compression fitting
AM-TEE-AS	2" Union Tee with 3/4" NPT fitting
AM-BNC-1	BNC adapter
AM-CBL	Extension Cable
AM-JB2	NEMA 4X Junciton Box

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)

Ordering Information

P585T1-015	Standard Industrial Combination pH probe for flow-through or submersion application with pt1000RTD temperature compensation device and 15 ft dual coaxial cable
P585HF1-015	Industrial Combination pH probe for applications with low concentration (<2%) of HF acid. Flow-through or submersion application with pt1000RTD temperature compensation device and 15 ft dual coaxial cable
P585HFA-015	Industrial Combination pH probe for applications with <5% HF acid. Flow-through or submersion application. Single junction with no temperature compensation device and 15 ft dual coaxial cable