



### Features

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- Fixed insertion depth
- Industrial-grade quality
- Convertible design allows for flow-through and submersion use
- Pt1000Ω RTD temperature element included
- Mounts from either end in standard 1" NPT fittings
- Durable CPVC shell provides excellent chemical resistance

### Description

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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 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 dual-threaded, 1" fixed-insertion design of these probes allows them to be used in both flow-through and submersion applications, minimizing specialized inventory requirements.

These sensors are available with an optional screw-on electrode protector for submersion mount use (AM-PTR-5). It is easily removed for flow-through installations when the probe is mounted to a tee. The sensor can also be mounted on a submersion arm (AM-ARM-5) for hard-to-reach applications.

The P575 series probes can be directly connected to the AM-2250 TX transmitter, AM-2250 and 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.

An alternative model is installed with a 3/4" MNPT compression fitting. With this design, the probe does not screw into the process line, but is simply inserted through the compression fitting. Probe cleaning and system calibration has never been easier. To order this style, ask for model P585 data sheet.

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

### Applications

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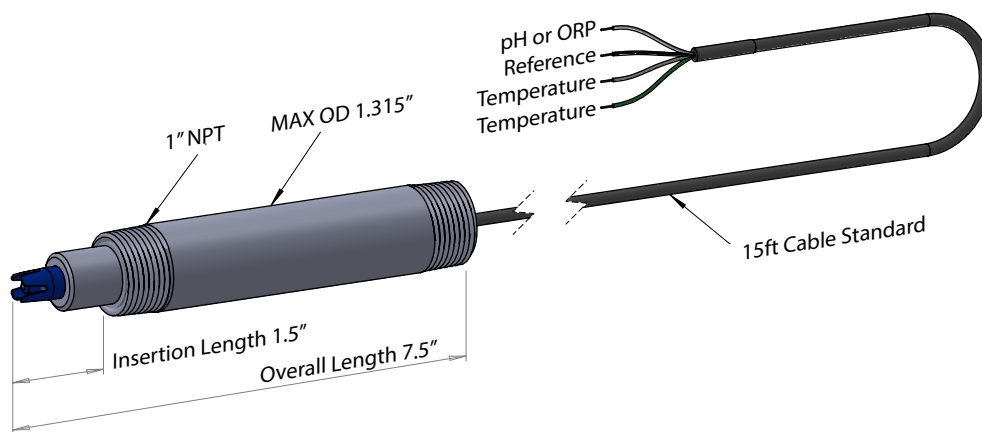
- Process Control
- Industrial and Municipal Water Treatment
- Circuit Board Manufacturing
- Mining
- Power Generation
- Food and Beverage
- Aquaculture
- Agriculture

# Model P575 Combination Style pH Sensors

## Technical Data

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

## Dimensions



## Related Products

### ANALYZERS

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

### ACCESSORIES

|          |  |
|----------|--|
| AM-ARM-5 | Submersion mounting arm, 4ft               |
| AM-PTR-5 | Electrode protector, CPVC                  |
| AM-TEE-5 | 2" Union Tee with quick disconnect adaptor |
| AM-BNC-1 | BNC adapter                                |
| AM-CBL   | Extension Cable                            |
| AM-JB2   | NEMA 4X Junction 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

|             |  |
|-------------|--|
| P575T1-015  | Standard Industrial Combination pH probe for flow-through or submersion application with pt1000RTD temperature compensation device and 15 ft dual coaxial cable  |
| P575HF1-015 | 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 |
| P575HFA-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              |