



## Combination Style pH Sensor Model 020-APH-2



### Features

- Industrial-grade quality
- 1000Ω RTD temperature element included
- Double junction for longer life
- Temperature rated to 80°C
- Variable insertion depth - 0" to 3.75"
- Compact: mounts in 3/4" FNPT
- 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!

### Description

These industrial combination pH or ORP sensors use the conventional measurement technique, employing a process pH glass electrode (platinum for ORP) which is compared to a reference electrode in KCL solution.

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

A new, more durable CPVC shell material provides excellent chemical resistance, and temperature compensation (PT1000RTD) 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 mean probe cleaning and system calibration has never been easier.

### Applications

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



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# Model 020-APH-2 Combination Style pH Sensor

## Technical Data

Measuring Range		Stability	
pH	0 to 14 pH	pH	0.05 pH per day, non-cumulative
Wetted Materials	CPVC body, polycarbonate (or epoxy), ceramic junction, silicone rubber, glass electrode, EPDM	Sensitivity	
Temperature Limits	23 - 176°F (-5 to 80°C) @ atmospheric pressure	pH	0.01 pH unit
Maximum Pressure	100 psig at 150°F (65°C)	Accuracy	
Maximum Flow Rate	10 ft. (3 meters) per second	pH	± 0.02 pH
Temperature Compensation	PT1000Ω RTD	Sensor Cable	Default length 15 ft (4.5m) dual coaxial, tinned wires

## Dimensions

