pH OR ORP Probe

P585 / R585



Advantages/Benefits

- **Easy in: no special tools**
- **Easy out: no twisted cable**
- **Variable insertion length**
- **Compact: mounts in 3/4" pipe**
- **Universal style: Flow-through and submersion.**
- **Automatic temperature compensation available**
- **Industrial-grade quality at low cost**

Description

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

These combination probes provide an economical alternative to higher cost models. The durable materials wetted by the process provide excellent chemical resistance. The convertible design of these probes allows them to be used in flowthrough and submersion applications thus minimizing inventory requirements. The probes are offered with or without temperature compensation.

These models are 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. This allows a variable insertion depth from 3/4" to 4-1/4". Probe cleaning and system calibration is greatly facilitated.

The 585 series probes can be directly connected to the 2100P/R and 2200P/R provided the analyzer is within the reach of the 3 meter (10 Foot) probe cable. For longer transmission distance, preamplifiers suitable for automatic and fixed temperature compensation are available. Refer to other side for more details.

CPVC mounting hardware is available for submersion and flowthrough applications.

Applications

- **Process Control**
- **Industrial and Municipal Water Treatment**
- **Industrial and Municipal Waste Treatment and Neutralization**
- **Fume Scrubbers**
- **Suitable for the Plating, Circuit Board Manufacturing, Chemical Processing, Pulp & Paper, Mining, Nuclear Energy and Pharmaceutical Industries**

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pH OR ORP Probe P585 / R585

Technical Data

Measuring Range

pH: 0-14 (Consult factory for applications below 2 and above 12)

ORP: -1000 mV to 1000 mV

Wetted Materials

Epoxy body, ceramic junction, CPVC fitting, glass electrode (plus platinum for ORP)

Temperature Limits

-5 to 70°C (23 to 158°F)

Maximum Pressure

100 psig at 65°C

Automatic Temperature Compensation

Standard in P585K only, 0-70°C (32 to 158°F)

Maximum Flow Rate

3 metres (10 ft.) per sec

Stability

pH: 0.05 pH/day, non cumulative

ORP: 3.0 mV/day, non cumulative

Sensitivity

pH: 0.01 pH unit

ORP: 1.0 mV

Output Impedance

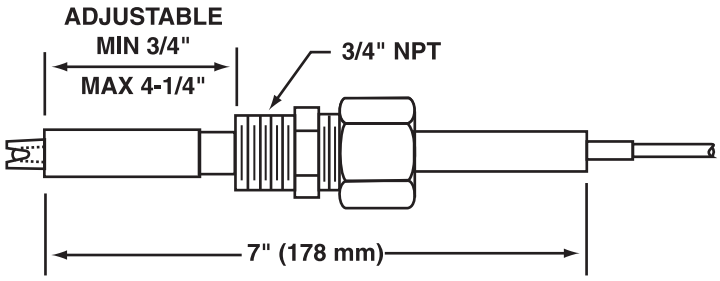
pH: 250 megohms (typical)

ORP: 2.0 megohms (typical)

Sensor Cable

3 metres (10 ft.) coaxial, terminated with a spade lug for active electrode, other wires tinned

Dimensions



Related Products

MH585S	Submersion hardware
JB-1	NEMA 4X junction box with Terminal Strip
101-A	Encapsulated preamplifier in NEMA 4X enclosure
101-BNC	Encapsulated preamplifier with BNC connection in NEMA 4X enclosure
C42-5P-XXX	Interconnect cable - Dressed both ends - Specify lengths to order

Ordering Information

P585-BNC / P585
Industrial Combination pH probe, without temperature compensation, optional BNC connector available

P585K
Industrial Combination pH probe for flow-through or submersion application with automatic temperature compensation

R585-BNC / R585
Industrial combination ORP probe, without temperature compensation, optional BNC connector available

R585K
Same as R585 but with a temperature sensor to provide temperature reading when used with 2200R analyzer

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* NOT TESTED ON ANIMALS