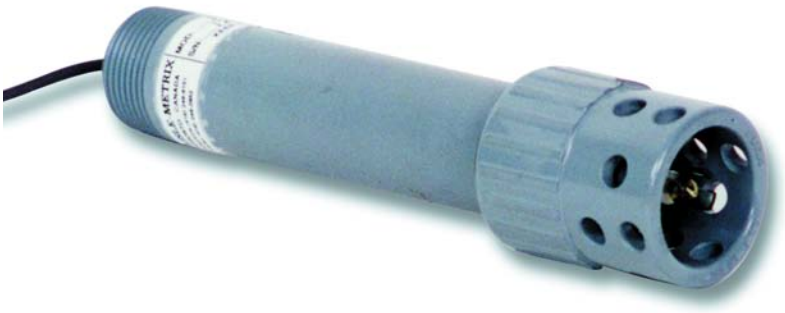
pH OR ORP Probe

P575 / R575



Advantages/Benefits

- **Convertible design for flowthrough and submersion use**
- **Constructed of durable materials for excellent chemical resistance**
- **Industrial-grade quality at low cost**
- **With or without temperature compensation**

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.

CPVC mounting hardware is available for submersion and flowthrough. These industrial combination probes are available with an optional screw-on protector for submersion mount use. It is easily removed for flow-through applications when the probe is mounted to a tee.

They may be directly connected to Models 2100P/R and 2200P/R analyzers provided the analyzer is within reach of the 3 metre sensor cable. For longer transmission distance, preamplifiers suitable for automatic and fixed temperature compensation are available. Refer to other side for more details.

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 is greatly facilitated. Ask for data sheet P585 / R585.

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**

AquaMetrix Inc.
22-121 Granton Drive
Richmond Hill ON Canada L4B 3N4

Tel 800.742.1413
905.763.8432
Fax 905.763.9480

Web www.aquametrix.com
Email sales@aquametrix.com

pH OR ORP Probe P575 / R575

Technical Data

Measuring Range

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

ORP: -1000 mV to 1000 mV

Wetted Materials

CPVC body, ceramic junction, glass electrode, RTV sealant (plus platinum for ORP)

Temperature Limits

-5 to 80°C (23 to 176°F)

Maximum Pressure

100 psig at 65°C

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

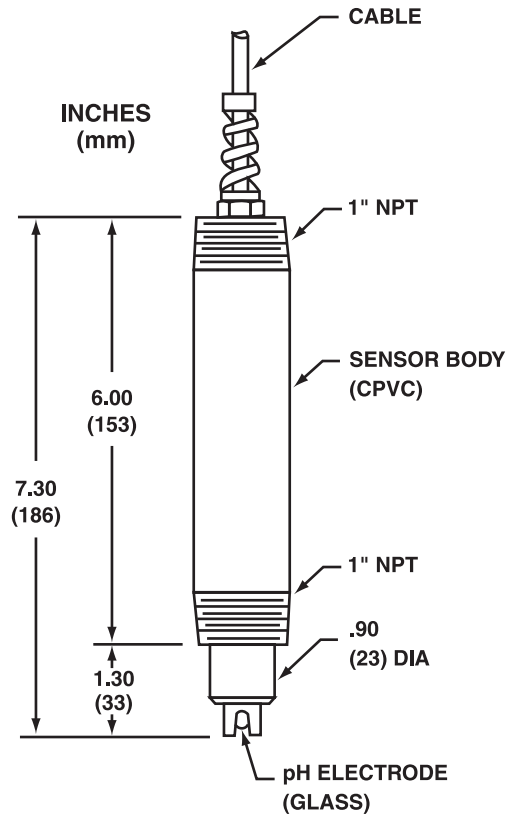
pH: 250 megohms (typical)

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

MH575S	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
C42-5PXXX	Interconnect cable- dressed both ends - specify length
Protector-5	Submersion Protector

Ordering Information

P575-BNC/P575
Industrial Combination pH probe for flow-through or submersion application without temperature compensation. BNC connector available

P575K
Industrial Combination pH probe for flow-through or submersion application with automatic temperature compensation

R575-BNC/R575
Industrial Combination ORP electrode for flow-through or submersion application. BNC connector available

R575K
Industrial Combination ORP electrode for flow-through or submersion application with a temperature sensor to provide temperature reading when used with 2200R analyzer

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Fax 905.763.9480

Web www.aquametrix.com
Email sales@aquametrix.com

* NOT TESTED ON ANIMALS