



Technologies



Legacy Technology

**BWB+ISI Legacy
pH/ORP Technologies**

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M-10 - Technical Information

General Purpose pH and ORP Sensors



*Diamond
in the Ruff*



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M-10 - Technical Information

Application

- Potable Water
- Cooling Towers
- Surface Water Monitoring
- Fresh and Salt Water Aquariums
- Fish Farming
- Hydroponics
- Municipal Swimming Pools & Health Spas

Features

- **Select pH or ORP Measurement**
- **Temperature Compensation Pt100**
- **Non-fouling porous Teflon® Liquid Junction**
- **Large Volume Reference Electrolyte Reservoir**
- **Compact Design**
- **1/2" MNPT Process Connections**
- **Designed for Flow Through and Submersion Applications**
- **Over 1 Million Installed**

Description

General Purpose pH and ORP Sensors with Protective Guard. The large volume single junction reference cell coupled with the non-fouling porous Teflon® liquid junction assures a long life in general service.

Specifications

Body Material	Ryton®
O-Rings	Viton®
Measuring Range	0 to 14 pH ORP -1,500 to +1,500 mV.
Temperature Range	-5 to 80°C (23 to 176°F)
Pressure Range	0 to 6.9 bar (0 to 100 psig)
Drift	< 2.0 mV/week
Response Time @ 25°C (77°F)	95% of reading in 10 seconds
pH Glass Bulb Impedance @ 25°C (77°F)	80 Megohms

Ordering Information

M-10

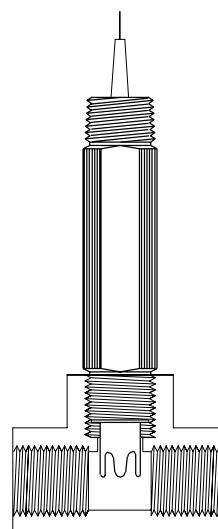
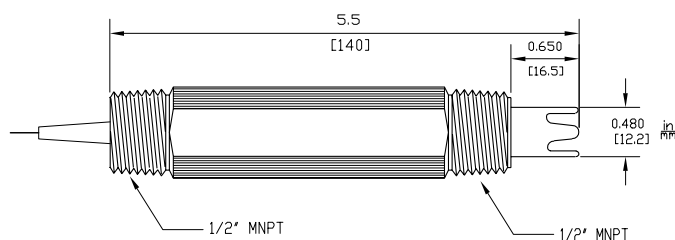
General Purpose pH Sensor with Protective Guard
Single Junction Reference Cell
Process Connections 1/2" MNPT
Insertion Length 16.5mm (0.65")
3.3m (10 ft.) Cable with BNC

Measurement Options

M-10-pH-ISI	pH Sensor
M-10-Pt100-ISI	pH Sensor with Pt100
M-10-ORP-Pt-ISI	Platinum ORP Electrode
M-10-ORP-Au-ISI	Gold ORP Electrode
M-10-F	Fluoride available (inquire)

Temperature Compensation

PT100 Temperature Compensation, 100 Ohm RTD



Flow Installation

- 1/2" NPT Pipe Tee (By Others)
- Use Teflon® Tape on Sensor to permit removal for routine maintenance
- Install shut off valves upstream and downstream of sensor
- Optimum flow rate is 3 to 5 GPM
- Sensor must remain in solution at all times

Note: Variations in design of plastic plumbing parts from different manufactures can be expected. Check tolerances prior to installation.

®Teflon and Viton are Registered Trademarks of E.I. Dupont de Nemours Company

®Ryton is a registered trademark of Philips 66 Co.

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