

M-11

ORP SENSOR

Features

- Choice of High Temperature, High ORP Measurement
- Double Junction Reference Cell
- Optional Integral Unity Gain Preamplifier

Applications

- Water and Wastewater Treatment
- Coagulation and Flocculation
- Process Monitoring and Control
- Acid / Caustic Neutralization
- Plant Effluent



Description

The Model 11 process ORP sensor features the Plunger ORP electrode design which permits 360° sensor mounting. The porous Teflon liquid junction resists fouling and chemical attack. Double junction reference cells increase the service life in applications containing sulfides (H_2S) and metals such as lead, mercury and silver. The new cast-in place solid reference electrolyte helps maintain a constant reference cell potential by resisting dilution over time with pressure and temperature changes. The new capillary temperature sensor design places the PT100 or PT1000 TC behind the ORP sensitive membranes for accurate temperature compensation and measurement. The TOP68 quick disconnect cable system provides ease of use and the reliability of fixed cable. The IP68 environmental rating protects the high impedance ORP electrode signal from moisture resulting from condensate build up in submersion pipes.

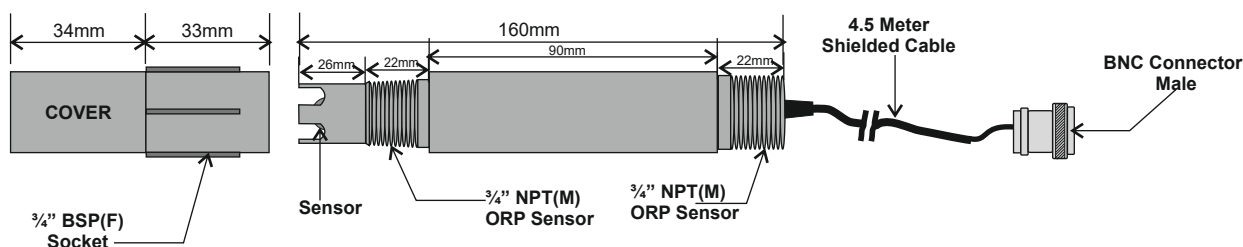
Technical Specifications

Body Material	Ryton®
O-Rings	Viton®
Measuring Range	(-1500) to (+1500)mV
Temperature Range	1) 0 to 80 °C (32 to 176°F) Standard Version 2) 0 to 110 °C (32 to 230°F) High Temp Version
Pressure Range	1) 0 to 6.9 bar (0 to 100 psig) Standard Version 2) 0 to 10.3 bar (0 to 150 psig) High Temp Version
Drift	< 2.0 mV/week
Response Time @ 25°C	95% of reading in 10 seconds
Asymmetry Potential	7.0 pH +/-0.2 pH
Theoretical Slope	+/-59.16 mV / pH unit @25°C (77°F)
Sodium Error	< 0.05 pH in 0.1 Molar Na+lon @ 12.8 pH
pH Glass Bulb Impedance @ 25°C	150 Megohms
Options	Description
T68	TOP68 Quick Disconnect
AMP	Integral Unity Gain Preamplifier
ORP	Platinum ORP electrode
HT	For continuous high temperature use, >80°C (176°F)
ORP	For continuous high ORP use, > 11.0 ORP
PT 100	Temperature Compensation, 100Ω RTD
PT 1000	Temperature Compensation, 1000Ω RTD
3KTC	Temperature Compensation, 3000Ω Thermister
SG	Solution Ground

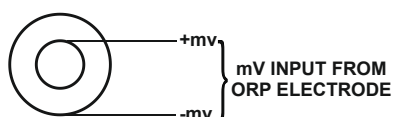
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Drawing Details



BNC CONNECTOR DETAILS



NOTE: The Sensor bulb tip should be wet all the times sensor may fail if tip kept dry.

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