Model 40 Insertion pH Sensor

Features

- Installs through a 1.0" Full Port Ball Valve
- Patented Plunger[1] pH Electrode Design
- Optional Flat pH Electrode Design
- Optional ORP Measurement
- Patented Porous[2] Teflon® Liquid Junctions
- Double Junction Reference Cell
- Optional Solution Ground



Applications

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

Description

The Model 40 pH sensor features the Plunger pH 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 pH sensitive membrane for accurate temperature compensation and measurement.

Specifications

Model 40	Specifications
Body Material	Ryton®, 316 SS Tube
O-Rings	Viton®
Measuring Range	0 to 14 pH
Temperature Range	-5 to 70°C (23 to 158°F)
Maximum Pressure @ 25°C	6.9 bar (100 psig)
Drift	< 2.0 mV/week
Response Time @ 25°C	95% of reading in 5 seconds
pH Glass Bulb Impedance @ 25°C	375 Megohms

[1] United States Patent No. 4,333,812
[2] United States Patent No. 4,128,468
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® Ryton is a registered trademark of Philips 66 Co.

INNOVATIVE SENSORS INC.
REGISTERED TO ISO 9001
CERTIFICATE NO. 00-1011

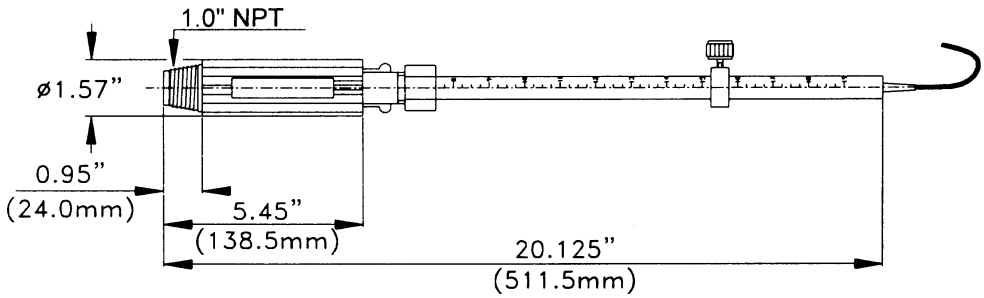
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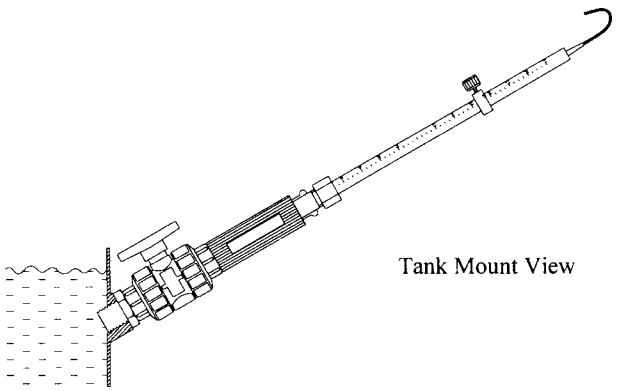
Ordering Information

The Model 40 pH sensor is a retractable pH sensor designed for installation through a 1.0” full port ball valve. The sensor includes the extension tube, cable and connector. The 500 mm (20.0”) extension tube is unique in that a ruler is marked on the tube to measure the insertion depth. A locking ring is provided to ensure the proper insertion depth is maintained. Features include a recessed pH bulb to protect the sensor on insertion.

Model 40 Ordering Information	**Description**
M - 40	Retractable pH Sensor with recessed pH bulb Double Junction Reference Cell No Temperature Compensation Process Connection 1.0” full port ball valve Insertion Length 380mm (15.0”) 3.3m (10 ft.) High Temperature Cable with BNC Connector
Options	**Description**
ORP	Platinum ORP Electrode
Flat	Flat pH Bulb
PT100	Temperature Compensation, 100 Ohm Platinum RTD
PT1000	Temperature Compensation, 1000 Ohm Platinum RTD
3KTC	Temperature Compensation, 3000 Ohm Thermister
SG	Solution Ground
M-40-PT100	**Example Order Number**

Model 40 Accessories	**Description**
Assembly	Installation hardware. Includes Tube Seal, Compression Nut and Depth Locking Ring. (Does not include ball valve)
M-40-Assembly	**Example Order Number**





Tank Mount View

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