

Model 60 Sanitary Ground Loop pH Sensor

Model 65 Sanitary Solution Ground pH Sensor

Features

- Patented Plunger¹ pH Electrode Design
- Patented Porous² Teflon[®] Liquid Junctions
- Double Junction Reference Cell
- Integral Differential Preamplifier
- Solution Ground
- Optional ORP Measurement
- **New** TOP68 Quick Disconnect Cable

Applications

- Suitable for Steam Sterilization
- Metal Tank Installations
- Food & Beverage

Description

These rugged pH sensors feature the Plunger pH electrode design which permits 360° sensor mounting and withstands thermal shock from -5 to 150°C (23 to 302°F). The porous Teflon[®] liquid junction resists fouling and chemical attack by CIP solutions and double junction reference cells increase the service life of the pH sensor. The optional TOP68 quick disconnect cable system provides ease of use and the reliability of fixed cable. The TOP68 has an IP68 environmental rating which means it's water tight, corrosion resistant and suitable for wet areas high in humidity or where hose down cleaning operations are standard operating procedure.

Specifications

Model 60	Specifications
Body Material	Ryton [®] , 316 SS Housing
O-Rings	Viton [®]
Process Connections	1.5" or 2.0" Sanitary Flange
Insertion Depth	88.9 mm (3.5")
Measuring Range	0 to 14 pH
Temperature Range	-5 to 130°C (23 to 266°F)
Maximum Pressure @ 25°C	10.3 bar (150 psig)
Drift	< 2.0 mV/week
Response Time @ 25°C	95% of reading in 10 seconds
pH Glass Bulb Impedance @ 25°C	M-60 < 1.0 Megohm M-65 ~ 450 Megohms



Model 60 shown with
T68 Top 68 Quick
Disconnect option



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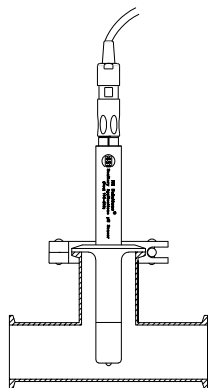
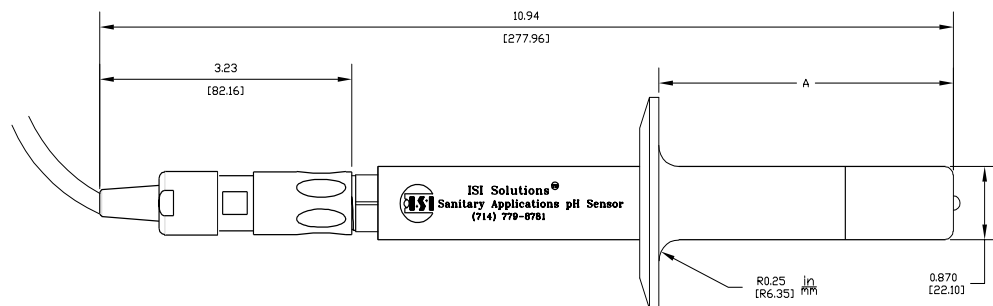
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Ordering Information

The **Model 60 Sanitary Ground Loop pH sensor** features a self-powered differential preamplifier to protect against ground loops, which can lead to pH offsets, drift, instability and may shorten sensor life.

The **Model 65 Sanitary Solution Ground pH sensor** provides a solution ground to accommodate pH analyzers and transmitters featuring pH glass electrode and reference cell diagnostics or differential input preamplifiers.

Model 60 Ordering Information	Description
M-60	Sanitary Flange pH Sensor Double Junction Reference Cell, KCl/AgCl and KNO ₃ Differential preamplifier Solution Ground No Temperature Compensation 6.1m (20.0 ft.) Cable with BNC Connector
M-65	Sanitary Flange pH Sensor without differential preamplifier
Options	Description
1.5	1.5" Sanitary Flange, 2.75" (69.9mm) Insertion
2.0	2.0" Sanitary Flange, 3.5" (89 mm) Insertion
T68	TOP68 Quick Disconnect
ORP	Platinum ORP electrode
PT100	Temperature Compensation, 100 Ohm Platinum RTD
PT1000	Temperature Compensation, 1000 Ohm Platinum RTD
3KTC	Temperature Compensation, 3000 Ohm Thermister
M-60-T68-PT100	Example Order Number



Flow Installation

- Sensor shown with 2" Tri-clamp
- Select installation location that provides easy access for routine maintenance.
- Optimum flow rate is 3 to 5 GPM
- Sensor must remain in solution at all times

Note: "A" dimension is 2.75" (69mm) for 1.5" and 3.5" (89mm) for 2" Tri-clamp installation.



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