

SPECTRA-PLUS Steam Sterilizable pH Sensor

Features

- Steam Sterilizable up to 135°C
- Choice of ¾" MNPT or 25mm Process Connections
- Patented Plunger pH Electrode Design
- Double Junction Reference Cell
- Non-fouling Porous¹ Teflon[®] Liquid Junctions
- **New** TOP68 Quick Disconnect Cable Connector.
- **New** Cast-In-Place Solid Reference Electrolyte

Applications

- Bioreactors
- Fermentation Vessels
- Hot Processes

Description

The **SPECTRA-PLUS pH Sensors** are designed specifically for use in the toughest bioreactor and fermentation applications. The large volume, sealed, double junction reference cell coupled with the non-fouling porous Teflon[®] liquid junction assures long life in the toughest process applications. The Plunger pH electrode design permits 360° sensor mounting and withstands thermal shock from -5 to 150°C (23 to 302°F).

The sensors are constructed of 316 Stainless Steel and Rytan. Standard insertion lengths are 115mm for the 25mm Tank Fittings and 150mm for the threaded version.

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. The TOP68 should be selected where autoclaving is required.

Specifications

Body Material	316 Stainless Steel and Rytan
Measuring Range	0 to 14 pH
Temperature Range	-5 to 135°C (23 to 275° F)
Pressure Range	0 to 6.9 bar (0 to 100 psig) @ 25°C (77°F)
Drift	< 2.0 mV/week
Response Time @ 25°C (77°F)	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 ⁺ Ion @ 12.8 pH
pH Glass Bulb Impedance @ 25°C (77°F)	375 Megohms



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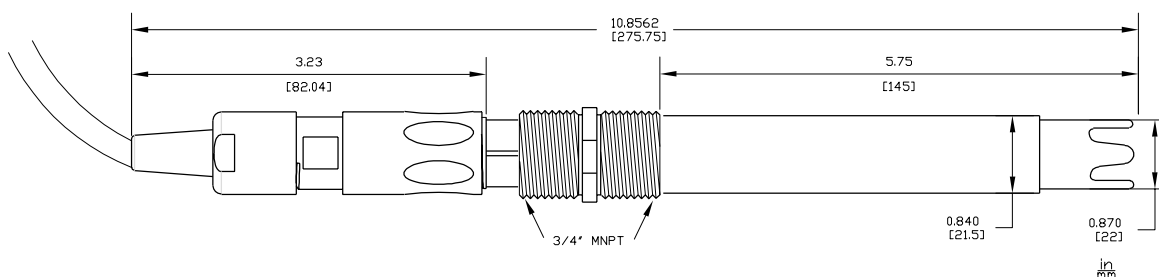
Ordering Information

The SPECTRA-PLUS Steam Sterilizable pH Sensors are constructed of 316 SS and Ryton®. The sensors include a sealed, double junction reference featuring a large volume reference cell with the patented porous Teflon® liquid junction and Plunger pH electrode, to assure a long service life. Standard insertion lengths are 150 mm (THREAD) and 115 mm (FLANGE).

Model	Description
SPECTRA - PLS	Steam Sterilizable pH Sensor
Code	Description
T68	TOP68 Quick Disconnect
THR	3/4" MNPT Threads
FLN	Flanged for 25mm Cap Nut
SPECTRA - PLS - T68 - FLN	Order Number Example

TOP68 Cable

Part Number	Description
Z7062	Coax Cable, 4.5M (15 ft.)
Z7063	Coax Cable, 9.1M (30 ft.)



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