SPECTRA Steam Sterilizable pH Sensor

Features

- Steam Sterilizable up to 135ºC
- Rugged Polymer Body
- Double Junction Reference Cell
- Non-fouling Porous[1] Teflon[R] Liquid Junctions
- Internal Pressure Compensation
- **New** TOP68 Quick Disconnect Cable Connector.
- **New** Cast-In-Place Solid Reference Electrolyte

Applications

- Bioreactors
- Fermentation Vessels
- Hot Processes

Description

The SPECTRA pH Sensor is designed for use in all high temperature pH applications. The use of pressure compensating devices placed inside the reference cell provides proven protection from extreme temperature induced pressure deviations. The double junction reference cell coupled with the non-fouling porous Teflon[R] liquid junction assures long life in tough process applications.

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	Polymer (PES)
Measuring Range	0 to 14 pH
Temperature Range	-5 to 135ºC (23 to 275º F)
Pressure Range	0 to 34.4 bar (0 to 500 psig) @ 25ºC (77ºF)
Drift	< 2.0 mV/week
Response Time @ 25ºC (77ºF)	95% of reading in 10 seconds
Asymmetry Potential	7.0 pH ± 0.2 pH
Theoretical Slope	±59.16 mV / pH unit @ 25ºC (77ºF)
Sodium Error	< 0.05 pH in 0.1 Molar Na+ Ion @ 12.8 pH
pH Glass Bulb Impedance @ 25ºC (77ºF)	125 Megohms

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Ordering Information

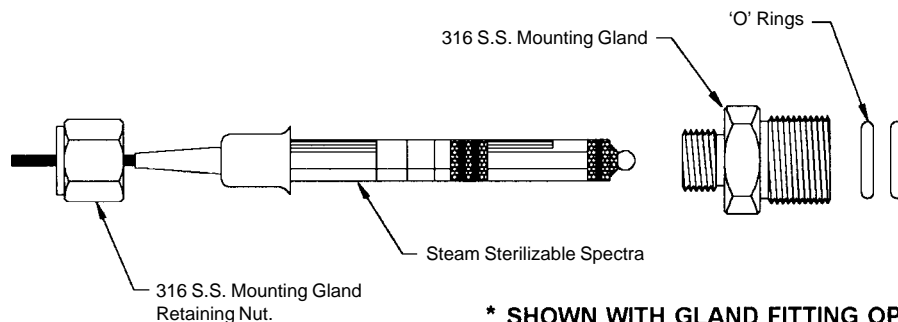| Model	Description
SPECTRA	High Temperature Polymer Body pH Electrode
	Double Junction KNO3 and KCl/AgCl Reference Cell
	No Temperature Compensation
	316 Stainless Steel Cap
	3.0 m (10 ft.) Cable with BNC Connector
SPECTRA-ORP	Platinum ORP Electrode
Options	**Description**
PG 13.5	Pg 13.5 Gland Fitting
T68	TOP68 Quick Disconnect
PT100	Temperature Compensation, 100 Ohm Platinum RTD
PT1000	Temperature Compensation, 1000 Ohm Platinum RTD
GT-DJ-T68	**Order Number Example**

SPECTRA Mounting Glands for Stainless Steel Cap

Part Number	Description
Z7500	½" MNPT, 316 SS
Z7501	¾" MNPT, 316 SS
Z7510	25 mm Port Gland, 316 SS
Z7520	1.5" Sanitary Flange, 316 SS
Z7521	2" Sanitary Flange, 316 SS

SPECTRA Mounting Glands for Pg 13.5 Connector including TOP68

Part Number	Description
Z7512	25 mm Housing for Pg 13.5, 316 SS

TOP68 Cable

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

'O' Rings

316 S.S. Mounting Gland

Steam Sterilizable Spectra

316 S.S. Mounting Gland Retaining Nut.

* SHOWN WITH GLAND FITTING OPTION