# GT-DJ Steam Sterilizable pH Sensor

## Features

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



Shown with Z7512 housing

## Applications

- Bioreactors
- Fermentation Vessels
- Hot Processes

## Description

**The GT-DJ 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 | Glass |
| Measuring Range | 0 to 14 pH |
| Temperature Range | -5 to 135°C (23 to 275° F) |
| Pressure Range | 0 to 34.4 bar (0 to 500 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) | 125 Megohms |

[1] United States Patent No. 4,128,468
[R] Teflon and Viton are Registered Trademarks of E.I. Dupont de Nemours Company

# GT-DJ Steam Sterilizable pH Sensor

## Ordering Information

| Model | Description |
|---|---|
| GT-DJ | High Temperature Glass Body pH Electrode<br>Double Junction KNO3 and KCl/AgCl Reference Cell<br>No Temperature Compensation<br>316 Stainless Steel Cap<br>1.0 m (3 ft.) Cable with BNC Connector |
| GT-DT-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** |

### GT-DJ Mounting Glands for Stainless Steel Cap

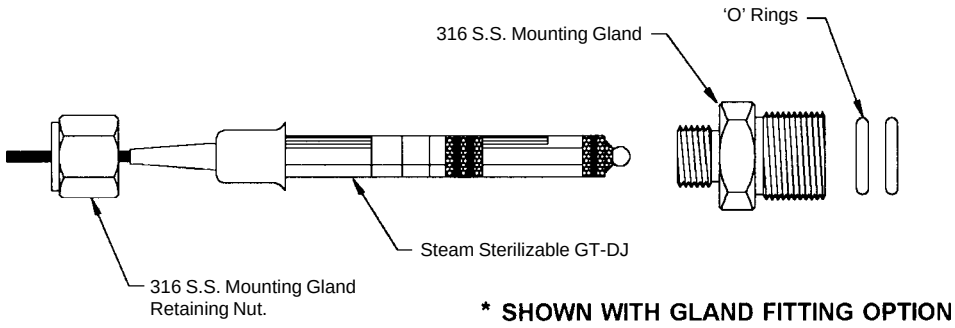
| Part Number | Description |
|---|---|
| Z7500 | ½" MNPT, 316 SS |
| Z7501 | ¾" MNPT, 316 SS |
| Z7510 | 25 mm Port Gland, 316 SS |
| Z7520 | 1.5" Sanitary Flange, 316 SS |
| Z7521 | 2" Sanitary Flange, 316 SS |

### GT-DJ 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.) |




* SHOWN WITH GLAND FITTING OPTION