



*Technologies*



*Legacy Technology*

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## GT-DJ - Technical Information

### Steam Sterilizable pH Sensor



*Diamond  
in the Ruff*



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## GT-DJ - Technical Information

### Application

- Bioreactors
- Fermentation Vessels
- Hot Processes
- Chemical Processes

### Features

- **Steam Sterilizable up to 135°C Double Junction Reference Cell**
- **Non-fouling Porous Teflon® Liquid Junctions**
- **Internal Pressure Compensation**
- **Automatic Temperature Compensation Pt100**
- **New TOP68 Quick Disconnect Cable Connector**
- **New Cast-In-Place Solid Reference Electrolyte**

### 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® 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

<b>Body Material</b>	Glass
<b>Measuring Range</b>	2 to 13 pH
<b>Temperature Range</b>	0 to + 135°C (32 to 275°F)
<b>Pressure Range</b>	0 to 34.4 bar (0 to 500 psig) @ 25°C (77°F)
<b>Drift</b>	< 2.0 mV/week
<b>Response Time @ 25°C (77°F)</b>	95% of reading in 10 seconds
<b>Asymmetry Potential</b>	7.0 pH ± 0.2 pH
<b>Theoretical Slope</b>	± 59.16 mV / pH unit @ 25°C (77°F)
<b>Sodium Error</b>	< 0.05 pH in 0.1 Molar Na+ Ion @ 12.8 pH
<b>pH Glass Bulb Impedance @ 25°C (77°F)</b>	350 Megohms

### Ordering Information

<b>GTDJ-2BA2ESA-ISI</b>	High Temperature Glass Body pH Electrode Double Junction KNO3 and KCl/AgCl Reference Cell with PT100 Temperature Compensator
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