High Temperature Insertion Type Electrode

PHE-5431-10 Series

RoHS

- High Temperature
- High Pressure
- Steam Sterilization
- Easy Installation

Applications

- High-Temperature Environment
- Continuous Processing Applications
- Harsh Conditions
- Steam Sterilization

The high temperature insertion type electrode is designed for periodic exposure to steam sterilization or continuous high temperature. This pH electrode is housed in a durable thermoplastic (PAS) body and is rated for temperatures up to 135°C (275°F). The use of the double Porous PTFE liquid junctions with matched viscosity electrolytes provides a reference cell which permits extended periods of pH measurements in the presence of sulfides or other silver complexing agents. This electrode also incorporates pressure compensating devices to protect the electrode from extreme temperature induced pressure deviations. Ten foot cable length and BNC connector are standard.

PHE-5431-10 shown larger than actual size.

Specifications

pH Range: 0 to 14 pH
Temperature Range: -5 to 135°C (25 to 275°F) @ 25 psig
Pressure Range: 500 psig @ 25°C
Accuracy: ±0.1% over full range
Impedance: 125 Ω (standard version)
Reference Cell: Double junction, KCl/AgCl, KNO_3
Reference Junction: Porous PTFE
Wetted Materials: PTFE, glass membrane, polymer outer body, EPR "O" Rings
Response Time: 10 seconds to 95% of reading
Drift: Less than 2 mV per week
Dimensions: 12 D x 127 mm L (0.47 x 5")

To Order

Model No.	Description
PHE-5431-10	High temperature insertion type pH electrode
PHE-5431-10-(*)	High temperature insertion type pH electrode with ATC
ORE-5431-10	High temperature insertion type ORP electrode

**** Specify ATC sensor: "-PT100"** for 100 Ω Pt RTD or **"-PT1K"** for 1000 Ω Pt RTD, for additional cost.*
***Note: PHEH-51** (½ MNPT) installation fitting is required for first time installation.*
Comes complete with operator's manual.
***Ordering Example: PHE-5431-10,** high temperature pH electrode, and **PHEH-51**.*