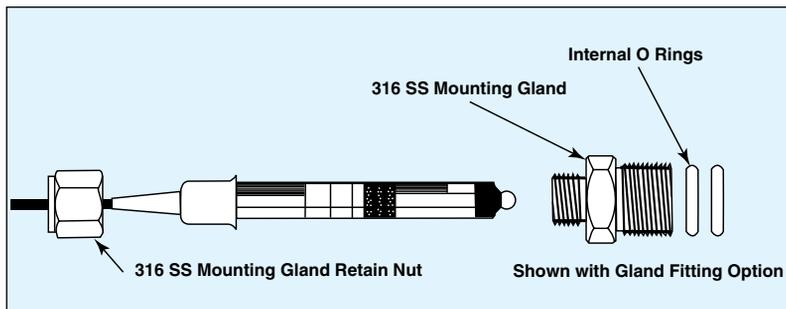




Universal Industrial Electrodes 12 mm (0.47") pH Sensor for Tough Measurement Applications

PHE-5432-10



Applications

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

The PHE-5432 is a steam-sterilizable combination pH electrode designed to withstand high temperatures and pressures. A porous PTFE liquid double junction and specifically formulated low-impedance glass membrane allow it to function in a wide variety of pH applications. This combination of features permits extended periods of pH measurement in the presence of poisoning ions or where membrane leaching would shorten the life of a conventional electrode. Melting of the cable due to contact with steam lines and motion-generated noise are common problems with interconnecting cables on steam-sterilizable electrodes. Our proprietary TPE high-temperature/ultra-low noise cable is designed for optimal service, even in demanding environments.

Specifications

pH Range: 0 to 14
Temperature Range: -5 to 135°C (23 to 275°F) @ 25 psig
Maximum Pressure: 500 psig @ 25°C (77°F)
Accuracy: ±0.1% over full range
Sodium Error: Less than 0.05 pH in 0.1 Molar Na⁺ ion @ 12.8 pH
Reference Cell: Double-junction KNO₃ and KCl/AgCl
Reference Junction: Porous PTFE
Zero Potential: 7.0 ±0.2 pH
Wetted Materials: PTFE, glass membrane, glass outer body
Drift: Less than 2 mV per week



PHCN-37 pH controller shown smaller than actual size

PHE-5432-10 pH sensor shown smaller than actual size.

To Order

Model No.	Description
PHE-5432-10	Glass body, porous PTFE liquid junction pH electrode
PHE-5432-10-(*)	Glass body, porous PTFE liquid junction pH electrode with ATC
ORE-5432-10	Oxidation-reduction potential electrode

* Specify ATC sensor: "-PT100" for 100 Ω Pt RTD or "-PT1K" for 1000 Ω Pt RTD. Comes complete with operator's manual.

Ordering Examples: PHE-5432-10-PT100, high-temperature electrode with 3 m (10') cable and 100 Ω Pt RTD ATC.

ORE-5432-10, ORP electrode, with 3 m (10') cable.