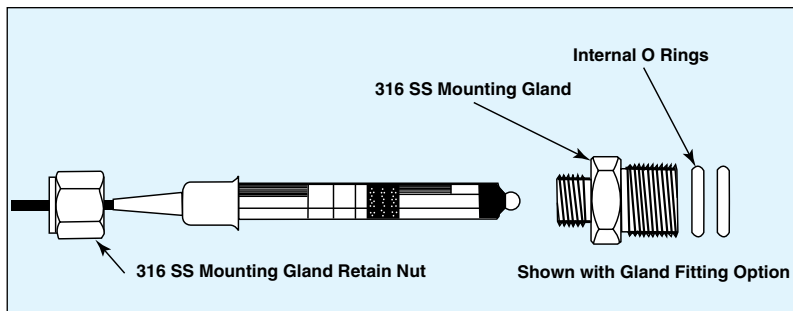




## Universal Industrial Electrodes 12 mm (0.47") pH Sensor for Tough Measurement Applications

### 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<sup>+</sup> ion @ 12.8 pH  
**Reference Cell:** Double-junction KNO<sub>3</sub> 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, for additional cost. 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.