



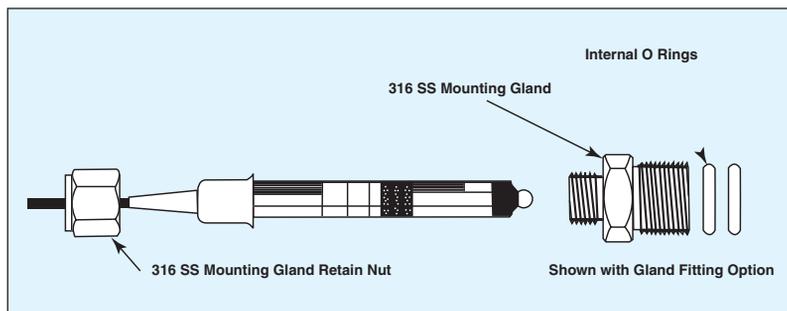
## Universal Industrial Electrodes 12 mm (0.47") pH Sensor for Tough Measurement Applications

PHE-5432-10  
**\$145**



### 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, \$395, shown smaller than actual size, see page D-24.

PHE-5432-10 pH sensor, \$145, shown smaller than actual size.



**AVAILABLE FOR FAST DELIVERY!**

| To Order (Specify Model Number) |        |             |                                                               |
|---------------------------------|--------|-------------|---------------------------------------------------------------|
| Model No.                       | Price  | Price w/ATC | Description                                                   |
| PHE-5432-10-(*)                 | \$145  | \$185       | Glass body, porous PTFE liquid junction pH electrode          |
| ORE-5432-10                     | 185    | —           | Oxidation-reduction potential electrode                       |
| CM-4357                         | 121.50 |             | Reference Book: Fundamentals of Chemical Reaction Engineering |

**Specify ATC sensor:** “-PT100” for 100 Ω platinum RTD or “-PT1K” for 1000 Ω platinum RTD. Comes with instruction sheet.

**Ordering Examples:** PHE-5432-10-PT100, high-temperature probe with 3 m (10') of cable and 100 Ω ATC, \$185. ORE-5432-10, ORP electrode, \$185.

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