



# INDUSTRIAL pH INSTRUMENTATION & ELECTRONICS

## Triple-Junction pH Electrode

PHE-5433-10

RoHS

TRODEKS®

The PHE-5433-10 electrode is housed in a robust, chemically resistant PPS body. Its triple junction reference cell of varying electrolytes and configurations constitutes an unpenetrable barrier that protects the reference half-cell. This design permits extended periods of pH measurements in the presence of sulfides or other silver complexing ions.

- ✓ Chemical Resistant Body
- ✓ Extended pH Measurement
- ✓ Steam Sterilization
- ✓ Triple Junction

### Applications

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

### Specifications

**pH Range:** 0 to 14  
**Temperature Range:** -5 to 135°C (25 to 275°F)  
**Pressure:** 500 psig @ 25°C (77°F)  
**Accuracy:** ±0.1% over full range  
**Insertion Length:** 135 mm (5.3")  
**Reference Cell:** Triple-junction, KCl/AgCl, 3M KCl  
**Reference Junction:** Porous PTFE  
**Wetted Materials:** PPS, PTFE, glass  
**Drift:** Less than 2 mV per week

### To Order

Model No.	Description
PHE-5433-10-(*)	Ultimate triple junction pH electrode

\* Specify ATC Sensor: "-PT100" for 100 Ω platinum RTD or "-PT1K" for 1000 Ω platinum RTD.

To order with high pH glass, add suffix "-HPH" to model number, for additional cost.

**Note:** PHEH-51PG (25 mm port gland) fitting is required for first-time installation.

Comes complete operator's manual.

**Ordering Example:** PHE-5433-10-PT100, ultimate triple-junction pH electrode, and PHEH-51PG (25 mm port gland).



## Installation Guide

### Fittings for 12 mm Electrodes to Facilitate Universal Installations

Both shown smaller than actual size.

PHEH-51S with PHE-5432-10

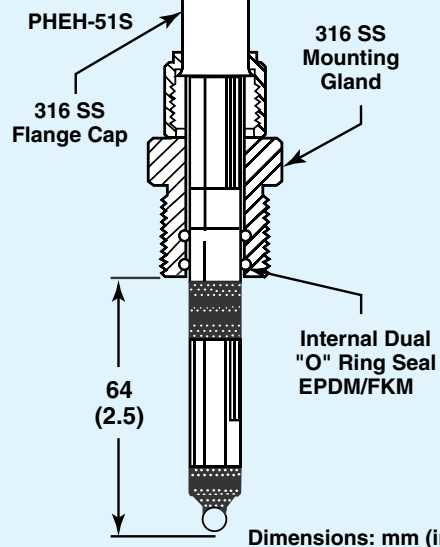
PHEH-51PG with PHE-5431-10



PHEH-51PG

76  
(3.0)

25 (0.98) Port Gland Typical  
for Fermentation Vessels.



Dimensions: mm (inch)

## Fittings Selection Guide

Model No.	Description
PHEH-51	1/2 MNPT, 316 SS
PHEH-51S	3/4 MNPT, 316 SS
PHEH-52	1 MNPT, 316 SS
PHEH-51PG	25 mm port gland, 316 SS