



# INDUSTRIAL pH INSTRUMENTATION & ELECTRODES

## In Line Flat Surface pH/ORP Electrodes

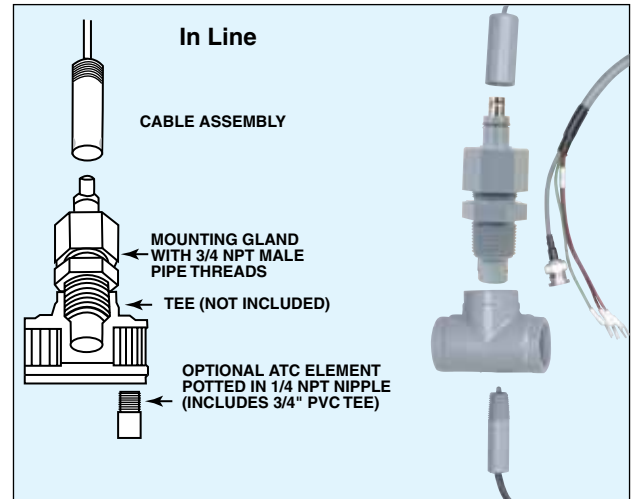
### PHE-5460 Series



- ✓ Designed For 3/4, 1, or 2" Pipes or Pipe Tees
- ✓ CPVC Construction with Acryl Gel Standard For High Temperature Applications



PHE-5460, and PHEH-54-10-PT100, shown smaller than actual size.



In Line Electrodes for 3/4, 1, 2" Pipe

### Flat Surface In-Line Electrodes (CPVC)

#### In-Line Electrodes

The PHE/ORE-5460 in-line pH and ORP electrodes feature a flat, self-cleaning abrasion-free surface. When exposed to turbulent flow, the resulting scrubbing action keeps the electrodes clean. The electrodes can be used in applications with 0 to 87°C (32 to 190°F) temperatures, pressures up to 6.89 bar (100 psig) and a 0 to 14 pH measurement range. Having fresh material sweeping past the electrode's surface improves response time as well as accuracy, especially for the measurement of oily waste fluids, lime slurries, flocculant and emulsions. The electrodes accept a cable assembly with a gland mounted in a 3/4, 1 or 2 NPT tee.

In-line electrodes are ideal for replacing existing threaded electrodes. They are used in applications where flow can be shut off for electrode maintenance.

The high temperature Acrylamide gel is supplied as standard with the PHE-5460 electrodes. These are only available with CPVC construction.

**Maximum Temperature:** 87°C (190°F)

#### Available Options:

- “-HF” Fluoride resistant, additional cost
- “-LC” Low conductivity, additional cost
- “-GL” Ground loop, additional cost

#### To Order

Model No.	Description
PHE-5460	pH electrode for 3/4" pipe, CPVC
PHE-5460-1	pH electrode for 1" pipe, CPVC
PHE-5460-2	pH electrode for 2" pipe, CPVC
ORE-5460	ORP electrode for 3/4" pipe, CPVC
ORE-5460-1	ORP electrode for 1" pipe, CPVC
ORE-5460-2	ORP electrode for 2" pipe, CPVC
Mounting Assemblies (CPVC) — Required for Installation	
PHEH-54-10	3/4 NPT mounting assembly and cable without ATC
PHEH-54-10-1	1 NPT mounting assembly and cable without ATC
PHEH-54-10-2	2 NPT mounting assembly and cable without ATC
PHEH-54-10-(* )	3/4 NPT mounting assembly and cable with ATC
PHEH-54-10-1-(* )	1 NPT mounting assembly and cable with ATC
PHEH-54-10-2-(* )	2 NPT mounting assembly and cable with ATC

**Note:** Temperature compensation is not required with ORP electrodes.

Order electrode and mounting assemblies separately. Materials of construction must be the same. Mounting Assemblies come with 3 m (10') cable with BNC connector. Cable lengths available up to 15 m (50'). Consult Engineering for ordering information and per foot price of additional cable.

#### \* Specify ATC Sensor

Order Code	Description
PT100	100 Ω Pt RTD
PT1K	1000 Ω Pt RTD
TH700	Series 700 Thermistor
R3K	3000 Ω Balco

**NOTE:** At the time of initial purchase, please order both electrode and mounting assembly. Mounting assembly includes insertion assembly and cable. If ordered with automatic temperature compensation (ATC), the temperature compensator is built into the insertion assembly. When electrode has expired, simply re-order electrode.

**Ordering Examples:** PHE-5460-GL-HF 3/4" in-line pH electrode with ground loop interrupt circuit and HF resistant glass.

PHEH-54-10-PT100 mounting assembly with 3/4 NPT with 100 Ω Pt RTD ATC and 3 m (10') cable.

PHE-5460, 3/4" in-line pH electrode, PHEH-54-10, mounting assembly with 3/4 NPT with 3 m (10') cable.