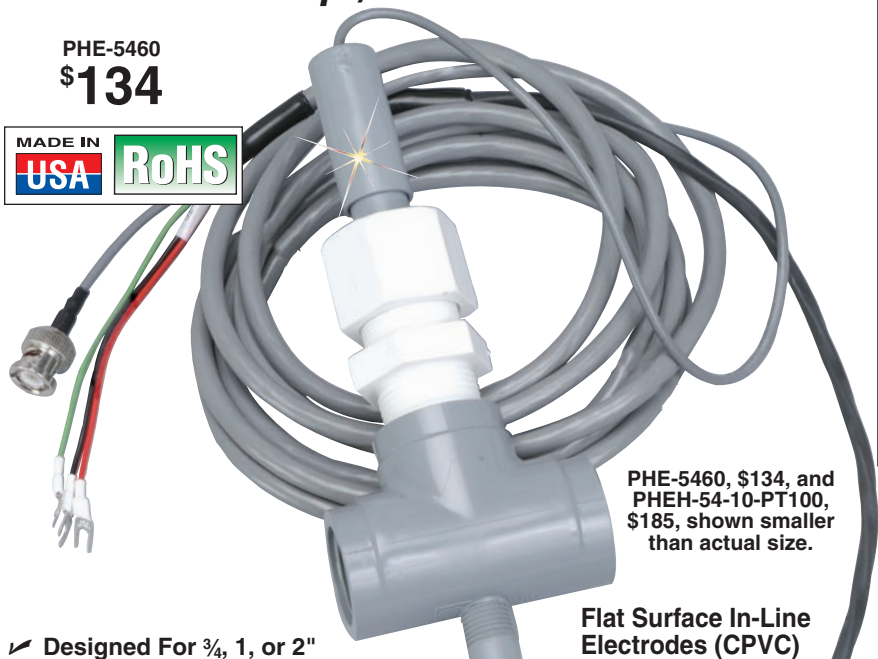




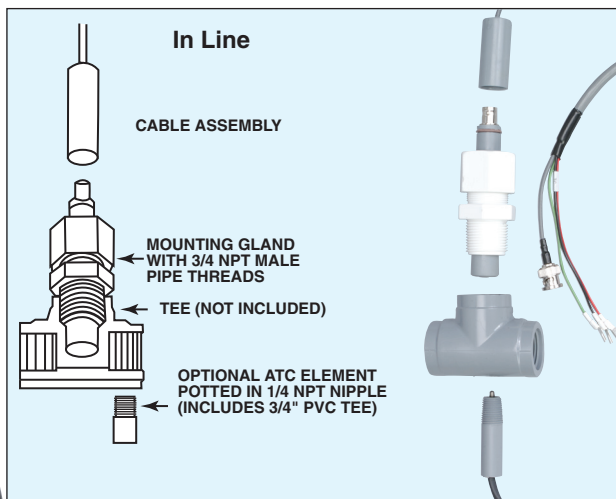
# INDUSTRIAL pH INSTRUMENTATION & ELECTRODES

## In Line Flat Surface pH/ORP Electrodes

PHE-5460  
\$134



PHE-5460, \$134, and PHEH-54-10-PT100, \$185, shown smaller than actual size.



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

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

### 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, \$50 additional
  - "-LC" Low conductivity, \$30 additional
  - "-GL" Ground loop, \$158 additional
- See page D-34 for option compatibility.

See Page D-34 for additional specifications and available options.

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

MOST POPULAR MODELS HIGHLIGHTED!

#### To Order (Specify Model Number)

Model No.	Price	Description
PHE-5460	\$134	pH electrode for 3/4" pipe, CPVC
PHE-5460-1	152	pH electrode for 1" pipe, CPVC
PHE-5460-2	180	pH electrode for 2" pipe, CPVC
ORE-5460	159	ORP electrode for 3/4" pipe, CPVC
ORE-5460-1	177	ORP electrode for 1" pipe, CPVC
ORE-5460-2	201	ORP electrode for 2" pipe, CPVC
Mounting Assemblies (CPVC) — Required for Installation		
PHEH-54-10	\$65	3/4 NPT mounting assembly and cable without ATC
PHEH-54-10-1	79	1 NPT mounting assembly and cable without ATC
PHEH-54-10-2	102	2 NPT mounting assembly and cable without ATC
PHEH-54-10-(*)	185	3/4 NPT mounting assembly and cable with ATC
PHEH-54-10-1-(*)	200	1 NPT mounting assembly and cable with ATC
PHEH-54-10-2-(*)	233	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') Add \$2.00 per extra foot. Consult Engineering for ordering information.

#### \* 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, \$134 + 158 + 50 = \$342.

PHEH-54-10-PT100 mounting assembly with 3/4 NPT with 100 Ω Pt RTD ATC and 3 m (10') cable, \$185. PHE-5460, 3/4" in-line pH electrode, PHEH-54-20, mounting assembly with 3/4 NPT with 6 m (20') cable, \$134 + 65 + [2 x (20-10)] = \$219.

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters