

# pH FIELD & LAB ELECTRODES

## Clear Epoxy-Bodied, Gel-Filled Combination ALpha® Electrodes

BNC  
connector  
standard.

All models  
shown smaller  
than actual size.

PHE-4272  
flat surface  
double  
junction, \$114.

PHE-4222  
flask size,  
\$89.

PHE-4202  
double  
junction,  
\$74.

PHE-4201  
Starts at  
**\$62**



PHE-4232  
semi-micro,  
\$103.

PHE-4201  
general-  
purpose, \$62.

### Certificate of Quality

This electrode has been manufactured to the most stringent quality control standards. It has been shipped in a special soaker/storage bottle to ensure its quality.

Your electrode has been 100% inspected prior to shipment and meets or exceeds all factory performance specifications.



PHH-830, portable  
pH/mV/ORP  
and temperature  
meter with  
RS232, \$400,  
see page B-20 in  
the GREEN BOOK®  
section of this  
handbook.

- ✓ Five Electrode Styles
- ✓ Covers Entire 0 to 14 pH Range
- ✓ Clear Epoxy Body Construction
- ✓ Fast Responding: 95% in Less than 1 Second
- ✓ Comes with OMEGA Quality Certificate

OMEGA Engineering is pleased to offer a complete line of laboratory pH electrodes. The PHE-4200 Series consists of gel-filled, combination pH electrodes with a unique clear epoxy body design. With five electrode styles to choose from, you're sure to find one suitable for your application.

OMEGA® PHE-4200 Series electrodes offer reliable quality at a reasonable cost. The electrodes measure the entire pH range from 0 to 14 pH units at 0 to 100°C (32 to 212°F) and feature an Ag/AgCl reference and polypropylene liquid junction. Each electrode comes in a soaker storage bottle to keep the electrode moist and ready for use. Shelf life is guaranteed for one year, and the provided OMEGA quality certificate assures that these electrodes meet the most stringent quality control requirements.

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

Model No.	Price	Description	Length mm (in)	Dia. mm (in)	R (25°C) MΩ
PHE-4201	\$62	General purpose	150 (6)	12 (0.47)	50 to 80
PHE-4202	74	Double junction	150 (6)	12 (0.47)	50 to 80
PHE-4222	89	Flask size	300 (12)	9.5 (0.37)	50 to 80
PHE-4272	114	Flat surface double junction	150 (6)	12 (0.47)	50 to 80
PHE-4232	103	Semi-micro	150 (6)	6 (0.24)	50 to 80

All electrodes come complete with 750 mm (2.5') of cable, BNC connector and operator's manual.

Ordering Examples: PHE-4201, general purpose electrode, \$62.  
PHE-4202, double junction electrode, \$74.

Recommended Reference Book: The Physical Chemistry of Natural Waters, ES-2140, \$200. See Section Y for Additional Books.





#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, 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, Wire

### • 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

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 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, Strain Gages, 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