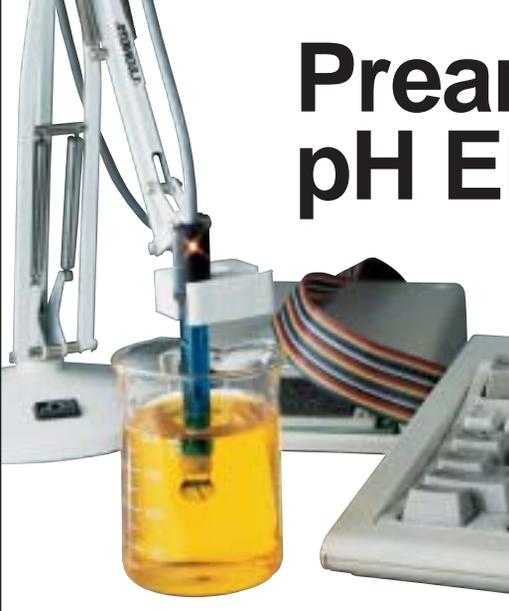


# Preamplified ALpHA™ pH Electrodes



Shown approximately actual size

## Basic Unit

# £67

with Preamplifier

- ✓ Interfaces Directly with Most Instrumentation That Accepts an mV Input Signal
- ✓ Signal Can Be Run up to 300 m
- ✓ Power Supply Available in Three Styles

OMEGA Engineering offers pH electrodes with integral preamplifiers for laboratory or industrial applications. These electrodes can interface directly with equipment that accepts a millivolt input signal with a 10 kΩ or greater input impedance, such as a data acquisition interface or multimeter. The preamplifier converts the high impedance millivolt signal of the electrode into a low impedance signal,

## Power Option

Option to Add to Model No. of Electrode	Price	Description
-EB	49	External replaceable battery pack
-PB	49	Battery encapsulated in the cap of the electrode. Battery life approximately one year. Battery cannot be replaced
-NB	41	Requires external dc power supply of ±1.5 Vdc to ±9 Vdc

enabling the signal to be run up to 300 m without signal loss. The electrode is supplied with 0.9 to 3 m of coaxial cable, depending on the model. If longer cable lengths are required, simply splice on extension cable.

These preamplified electrodes are available in a variety of styles and can interface with any pH meter, controller, transmitter, multimeter or data acquisition system with a one-to-one unity gain.

An accompanying power supply is available in three styles: an encapsulated battery design, an external battery style and a style for use with an external dc power source.

## SPECIFICATIONS

**Output:** 0pH = 414.1 mV; 14 pH = -414.1 mV @ 25°C/77°F

**Temperature:** -5 to 100°C (23 to 212°F)

**Impedance:** 10 kΩ

**Unity Gain:** 1

**Power Supply:** ±1.5 Vdc to ±9 Vdc; 0.5 mA current

**Battery Life:** 1 year

## Accessories

Model No.	Price	Description
EB-SPARE	£8.20	Spare battery pack for -EB option

## To Order (Specify Model Number)

Model No.	Price	Description
PHE-1304-(* )	£26.00	Combination gel-filled, epoxy bodied, general purpose laboratory pH electrode, pH range 0 to 12, temperature range 0 to 80°C (32 to 176°F)
PHE-2114-(* )	63.00	Combination general purpose, large bulb, refillable glass electrode, pH range 0 to 13, temp. 0 to 100°C/32 to 212°F
PHE-5311-10-(* )	84.00	Industrial in-line combination, general purpose, gel-filled, pH electrode, Kynar housing, ½" BSP thread, insertion length 25 mm, 3 m of cable standard, pH range 0 to 13, temp. range -5 to 100°C. Dimensions: 127 x 25 mm (5.0 x 1.0")
PHE-5411-10-(* )	102.00	Industrial in-line combination double junction electrode, ½" BSP thread, insertion length 25 mm 1 m of cable standard, pH range 0 to 13, temp. range -5 to 100°C (23 to 212°F). Dimensions: 127 x 25 mm (5.0 x 1.0")
PHE-5316-10-(* )	76.00	Industrial in-line combination general purpose, gel-filled electrode, CPVC housing, ¾" BSP thread, 50 mm insertion length, 3 m of cable standard, pH range 0 to 13, temp. range -5 to 80°C (23 to 176°F). Dimensions: 168 x 25 mm (6.6 x 1.0")
PHE-6351-10-(* )	93.00	Industrial submersible, combination, general purpose, gel-filled, pH electrode, potted in 0.9 m ABS pipe, 3 m of cable standard, pH range 0 to 13, temp. range 0 to 80°C (32 to 176°F) Dimensions: 27 x 914 mm (1 ¼ x 36")
PHE-6451-10-(* )	110.00	Industrial submersible, combination, double junction, gel-filled, pH electrode potted in 0.9 m ABS pipe, 3 m of cable standard, pH range 0 to 13, temp. range 0 to 80°C (32 to 176°F) Dimensions: 27 x 914 mm (1 ¼ x 36")

\* Specify power option (see table at left) and add additional cost to the price of electrode: -EB (£49), -PB (£49), or -NB (£41)

**Ordering Example:** PHE-5411-10-EB, industrial in-line double junction preamplified electrode with external battery, £102 + 49 = £151