



## Insertion/Submersion Combination Electrodes

### PHE-7151-15 Series



The PHE-7151 Series combination electrodes are ruggedly constructed; the outer body is ABS with ¼ MNPT threads at both ends. The maximum insertion length is 31.75 mm (1.25"). Electrodes are annular PTFE liquid junction refillable and include 4.6 m (15') of cable with a BNC connector. For applications with temperatures up to 120°C (248°F), units are available in polyphenylene sulfide (PPS).\*\*\*

These electrodes have a special plunger design allowing them to be mounted at any angle.



**To Order Visit [omega.com/phe7151\\_5312\\_ore7151](http://omega.com/phe7151_5312_ore7151) for Pricing and Details**

Model No.	Length mm (inch)	Dia. mm (inch)	pH Range	Temp. °C (°F)	Refill or Gel	R M Ω Price at 25°C (77°F)	Description
PHE-7151-15	140 (5.5)	30 (1.2)	0 to 12	0 to 80 (32 to 176)	Refill	400	Refillable general purpose**
PHE-7351-15	140 (5.5)	30 (1.2)	0 to 12	0 to 80 (32 to 176)	Gel	400	Sealed general purpose
PHE-7152-15	140 (5.5)	30 (1.2)	0 to 14	0 to 80 (32 to 176)	Refill	1000	Refillable high pH applications**
ORE-7151-15	140 (5.5)	30 (1.2)	—	0 to 80 (32 to 176)	Refill	—	General purpose refillable ORP**

Comes complete with operator's manual.

\*\* Refill Solution: **PHFS-7151-4**, 4 oz bottle  
**PHFS-7151-16**, 16 oz bottle.

\*\*\* For polyphenylene sulfide body, add suffix "**-PPS**" to model number for additional cost.

**PHEH-71-4**, 48-inch extension for PHE-7151-15 electrode.

**Ordering Examples:** **PHE-7151-15-PT100-PPS**, refillable general purpose electrode, 4.5 m (15') cable with BNC connector, 100 Ω PT RTD ATC and optional polyphenylene sulfide body.

**PHE-7351-15**, sealed general purpose electrode, 4.5 m (15') cable, with BNC connector.

### Heavy-Duty Extension Cables for Industrial Electrodes

Model No. BNC to BNC	Length meters (feet)
PHEC-B10HD	3.0 (10)
PHEC-B25HD	7.6 (25)
PHEC-B50HD	15.3 (50)

### In-Line Disposable Electrodes

OMEGA in-line combination electrodes mount on standard pipe tees for continuous pH or ORP monitoring. The electrode is constructed in a Kynar housing with ½ MNPT threading. Probe insertion length is 25 mm (1") and is able to withstand pressure up to 150 psi. 3 m (10') cable length and BNC connector are standard. Dimensions: 127 x 25 mm (5 x 10")



A



B

### CPVC In-Line Disposable pH Electrodes

Also available, the CPVC in-line disposable electrode is ruggedly constructed to withstand up to 100 psi. Probe insertion length is 51 mm (2") with ¼" diameter. A ¼ MNPT fitting is standard and is supplied with 3 m (10') of cable and a BNC connector. Dimensions: 168 x 25 mm (6.6 x 10").

	Model No.	pH Range	Temperature Range °C (°F)	Notes	RMΩ at 25°C (77°F)
A	PHE-5311-10	0 to 13	-5 to 100 (23 to 212)	General purpose	50
A	PHE-5312-10	0 to 14	0 to 100 (32 to 212)	High pH	200
A	PHE-5411-10	0 to 13	-5 to 100 (23 to 212)	Double junction	50
A	PHE-5412-10	0 to 14	0 to 100 (32 to 212)	Double junction high pH	200
A	ORE-5311-10	ORP	-5 to 100 (23 to 212)	Platinum band	—
A	ORE-5411-10	ORP	-5 to 100 (23 to 212)	Platinum band double junction	—
A	ORE-5419-10	ORP	-5 to 100 (23 to 212)	Gold disc double junction for cyanide applications	—
B	PHE-5316-10	0 to 13	-5 to 80 (23 to 176)	Sealed Ag/AgCl	50

Automatic temperature compensation is not required with ORP (redox) electrodes.

**Ordering Example:** **PHE-5311-10**, 0 to 13 general purpose electrode.