



Submersible Flat Surface pH/ORP Electrodes

PHE-6510B Series



PHE-6510B (above) and PHEH-65-10 (above right), both shown smaller than actual size.



PHE-6510B enlarged

- ✓ CPVC or PVDF Construction
- ✓ Designed For Mounting in Tanks, Flumes, and Streams
- ✓ Easy Mounting in Tanks
- ✓ Acrylamide Gel Standard

The flat surface design is well suited for applications with relatively high suspended solids or where flocculation operations require low velocities.

Where only low velocities are present and coating is a problem, the electrode can be mounted at a 45° angle facing the flow so as to obtain increased scrubbing action across the measuring surface.

Submersion Electrodes

The OMEGA® PHE/ORE-6510B submersible electrodes are designed for use in drums, open tanks and streams. The flat sensing surface is surrounded by a porous polyethylene reference junction which minimizes fouling. Electrode installation and removal done by a simple ¼ turn quick disconnect. The cable assembly's cap has ½ MNPT thread, which can be connected to a coupling and support pipe. The pipe allows easy mechanical mounting and protects the cable from the liquid measured. The resulting assembly is lightweight for convenient handling when maintenance is needed. ATC is available as part of the mounting assembly.

Specifications

Maximum Temperature

87°C (190°F) CPVC body 100°C (212°F) PVDF body

Available Options:

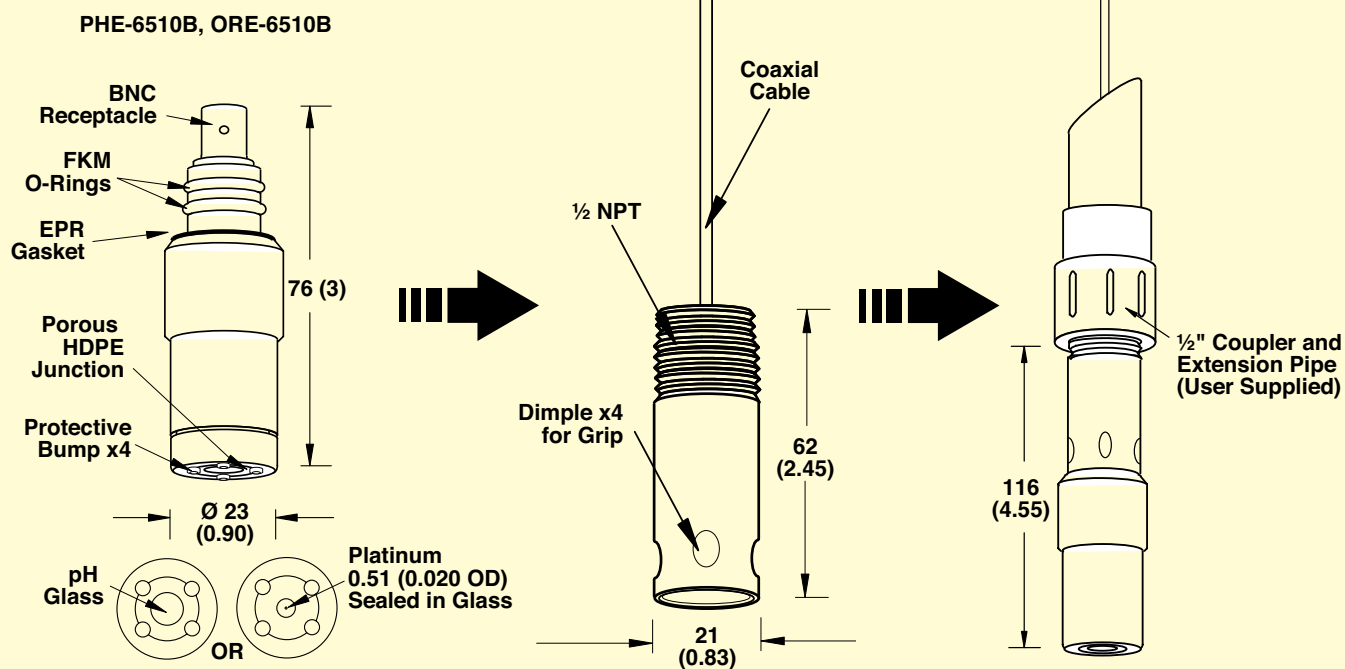
- “-HF” Fluoride resistant
- “-LC” Low conductivity
- “-GL” Ground loop, for additional cost



INDUSTRIAL pH INSTRUMENTATION & ELECTRODES

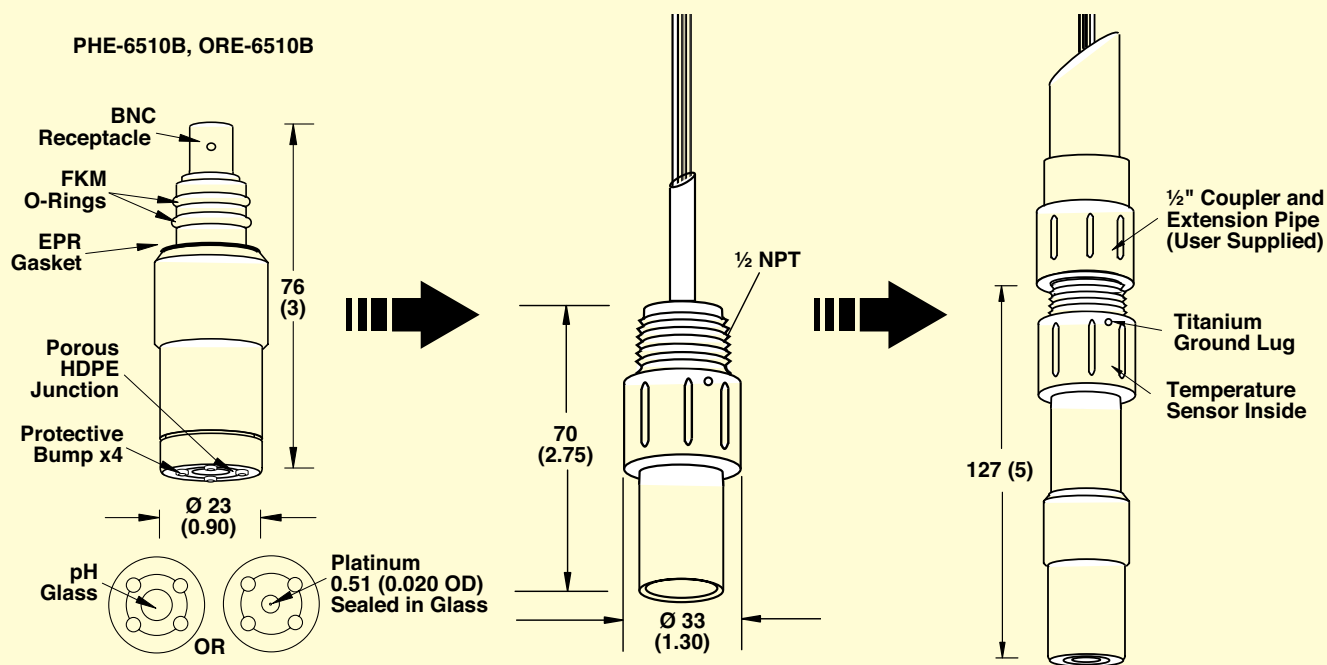
Dimensions: mm (inch)

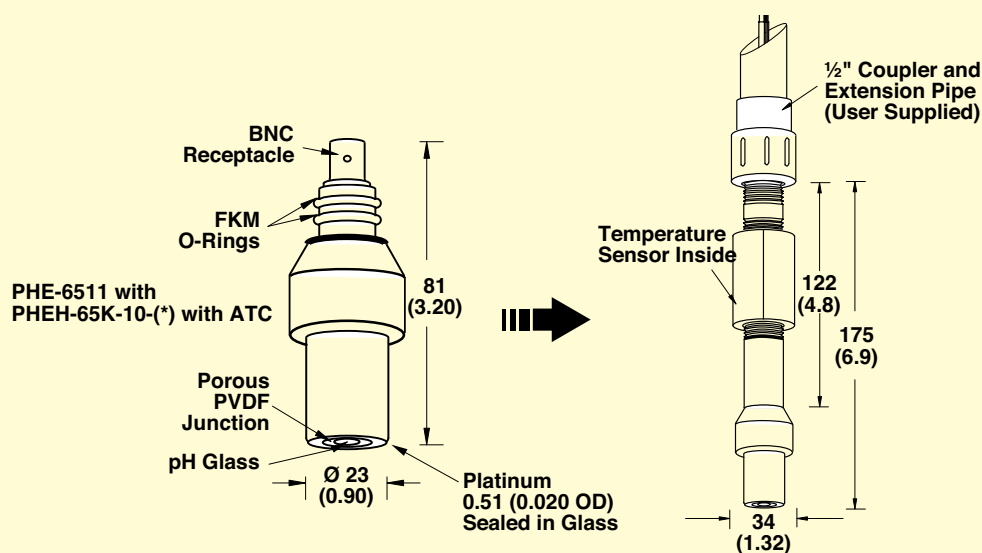
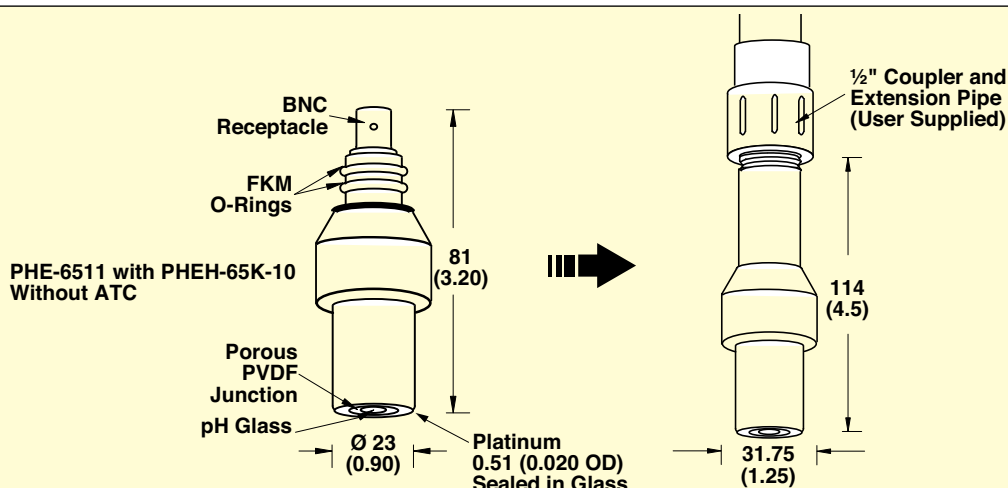
PHEH-65-10 without ATC assembled



Dimensions: mm (inch)

PHEH-65-10-(*) with ATC assembled





Submersion/Electrodes

To Order

Model No.	Description
PHE-6510B	Submersion pH electrode, CPVC
PHE-6511	Submersion pH electrode, PVDF
ORE-6510B	Submersion ORP electrode, CPVC
ORE-6511	Submersion ORP electrode, PVDF
Mounting Assemblies — Required for Installation	
PHEH-65-10	CPVC without automatic temperature compensation
PHEH-65-10-(*)	CPVC with ATC
PHEH-65K-10	PVDF without ATC
PHEH-65K-10-(*)	PVDF 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') for additional cost 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

Ordering Examples: PHE-6510B-HF, CPVC electrode with HF resistant glass and PHEH-65K-10-TH700, mounting assembly with 3 m (10') cable and 700 Series thermistor ATC.

PHE-6510B, CPVC pH electrode, and PHEH-65-20 mounting assembly with 6 m (20') cable.

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.