



Submersible Flat Surface pH/ORP Electrodes

PHE-6510B Series



PHE-6510B (above) and PHE-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

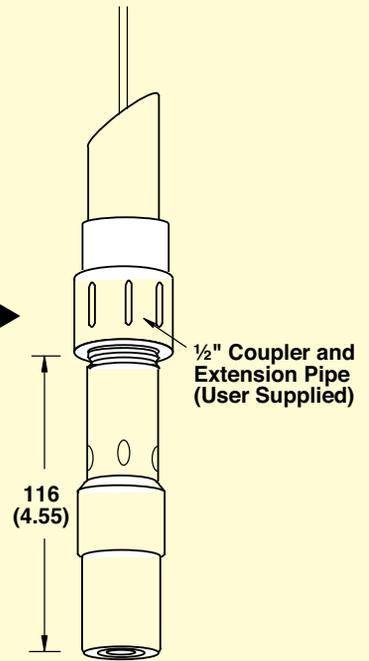
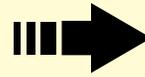
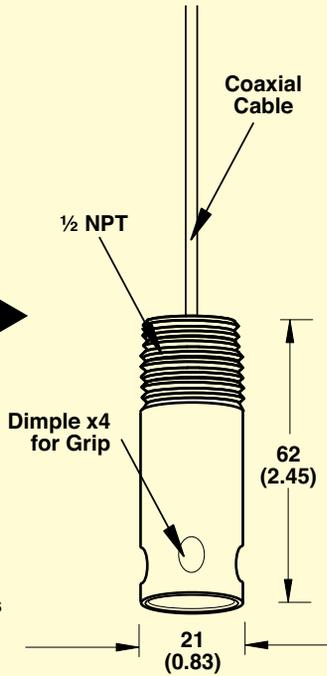
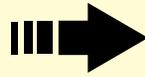
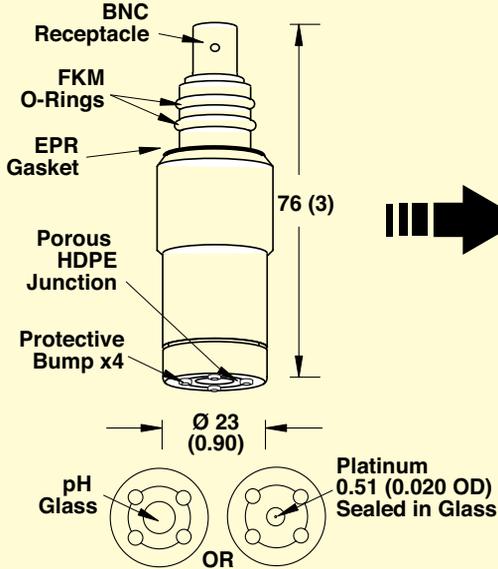


INDUSTRIAL pH INSTRUMENTATION & ELECTRODES

Dimensions: mm (inch)

PHEH-65-10 without ATC assembled

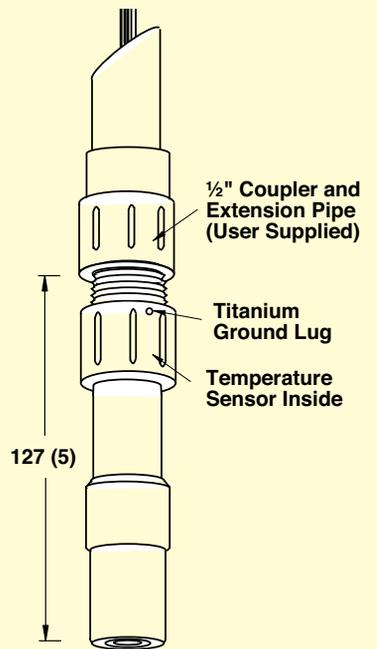
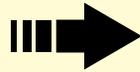
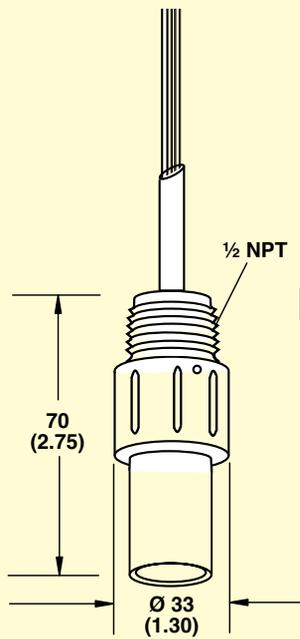
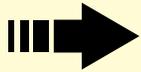
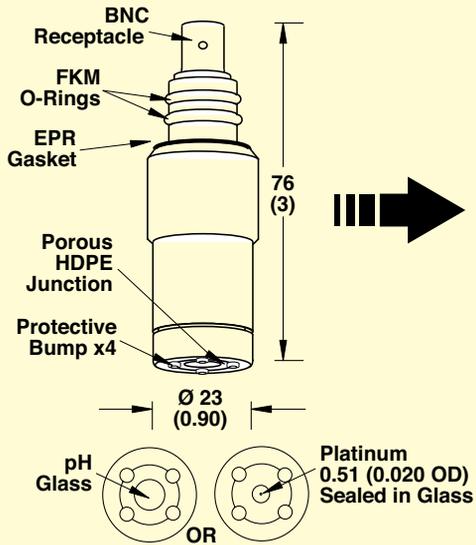
PHE-6510B, ORE-6510B

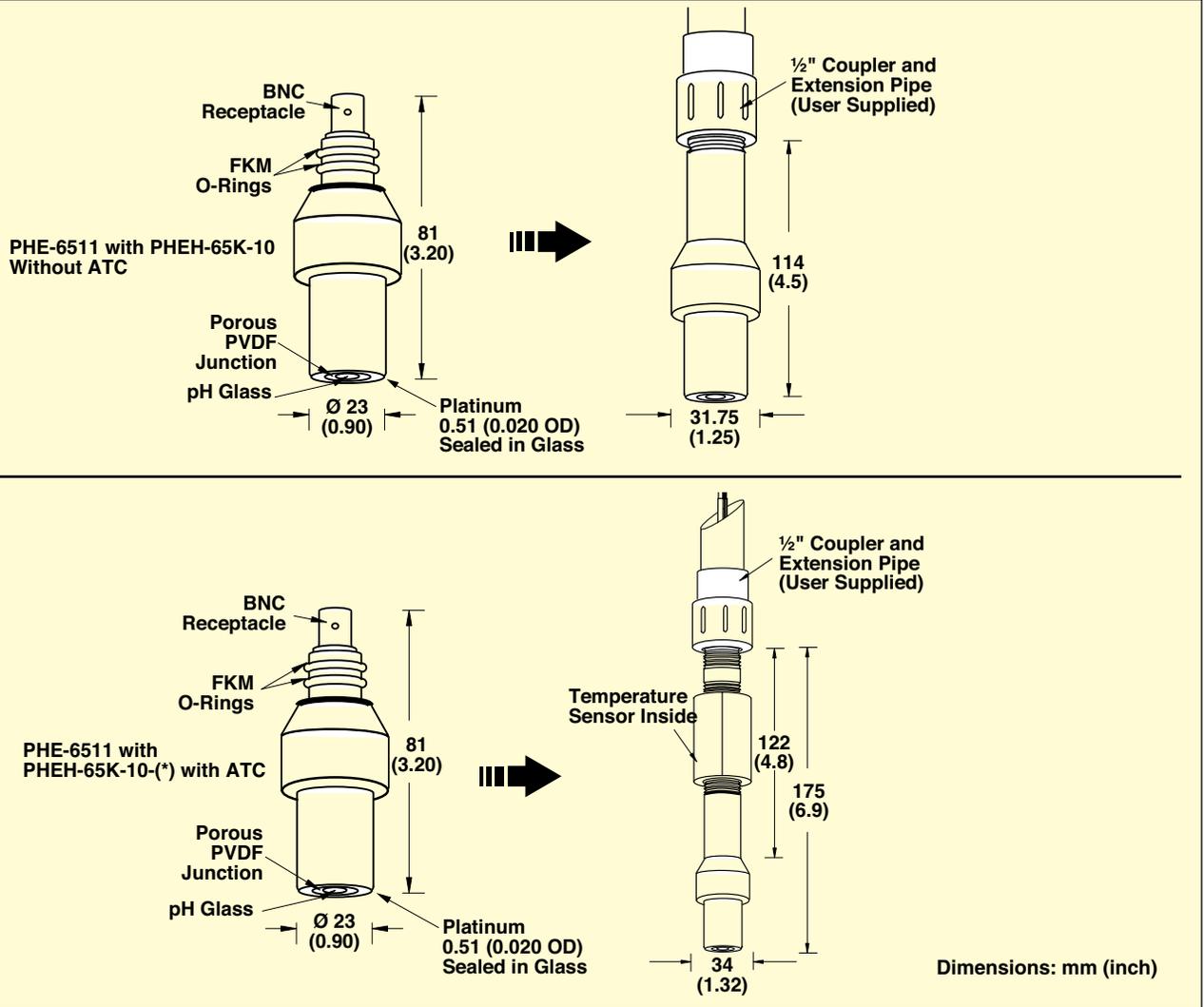


Dimensions: mm (inch)

PHEH-65-10(*) with ATC assembled

PHE-6510B, ORE-6510B





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.