



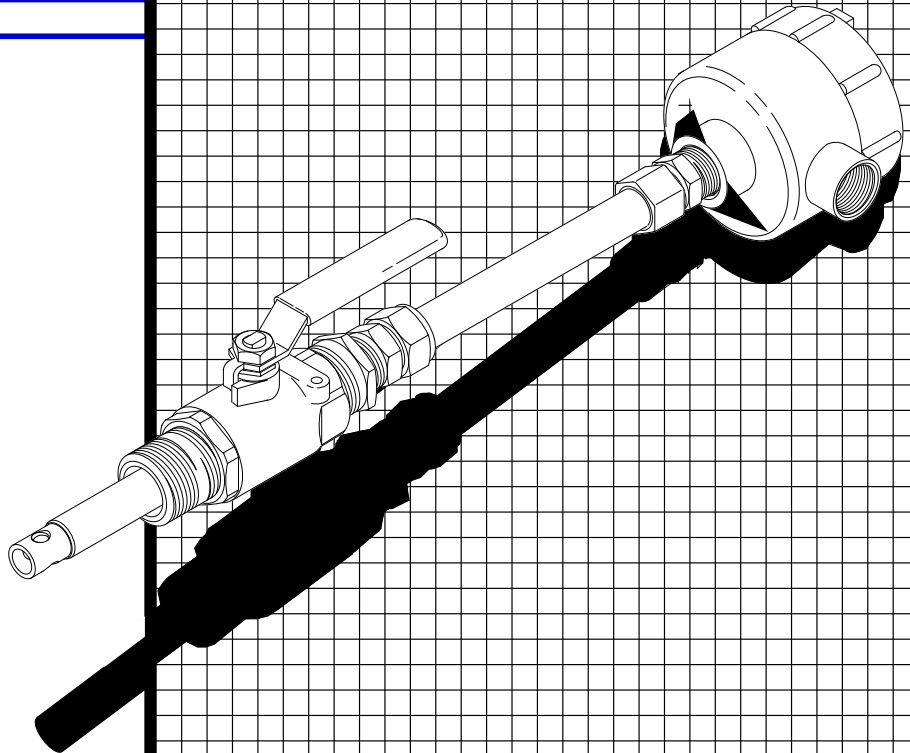
SENSOR DEVELOPMENT, INC.
SANTA ANA, CALIF (714) 836-7090

PHS16 pH / ORP SENSOR

- Measuring cartridge can be removed by hand for fast and easy service

- O-ring seals used on all versions for highest on-stream reliability

- Optional wet-tap valve allows insertion and removal with line under pressure

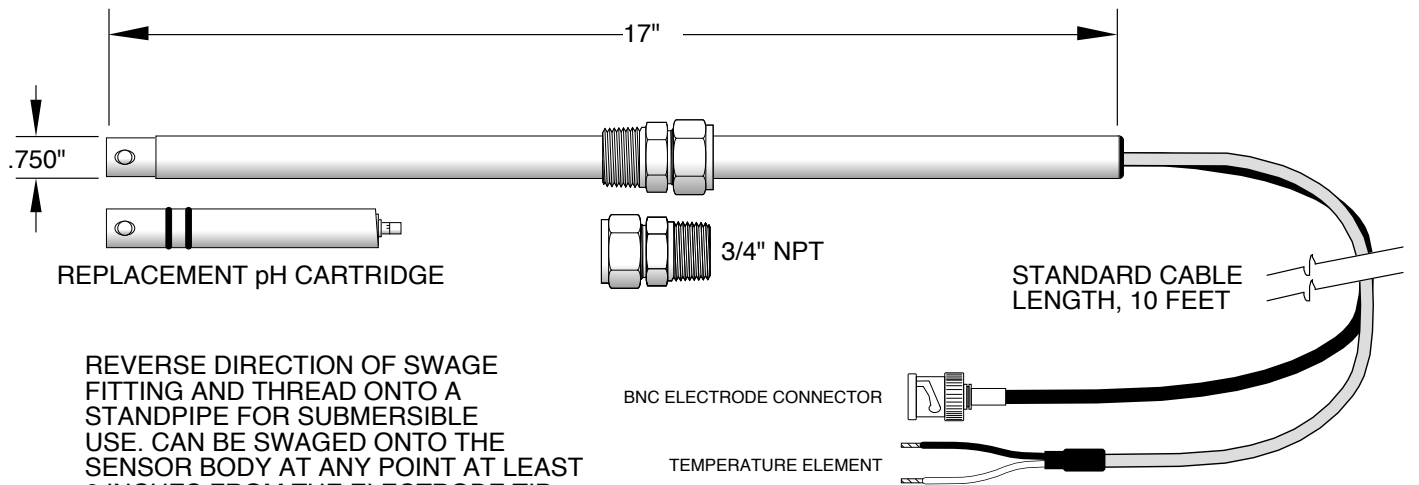


This sensor is ideal for hard to reach applications. Its 3/4" diameter allows insertion into narrow tank openings and small flow lines, and gives greater stability in highly agitated vessels. Maintenance time is reduced, since there is only one active element to be serviced and it is readily accessible, requiring no tools for removal.

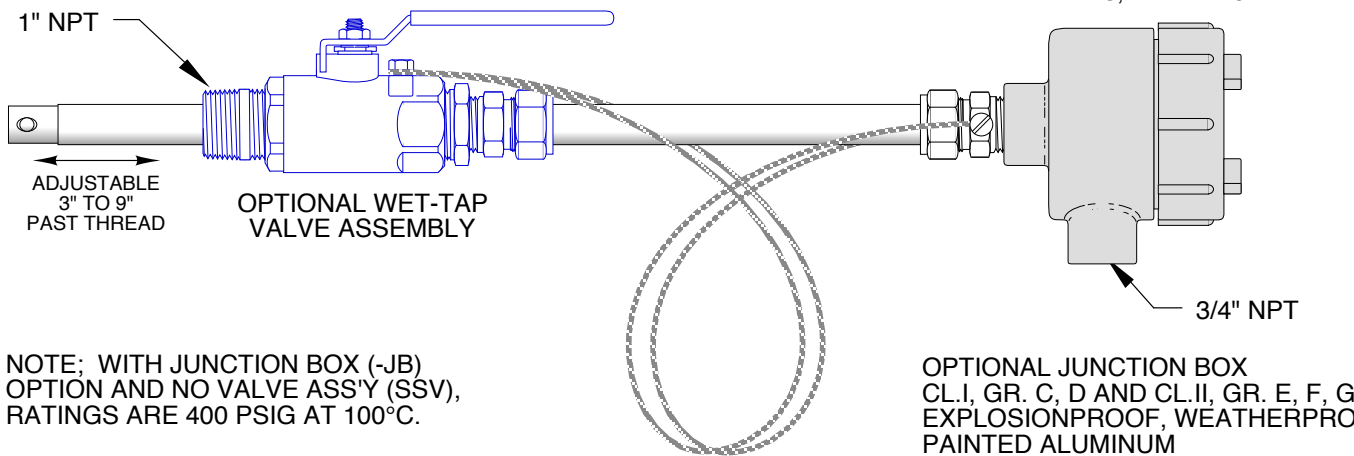
Application Notes

Wetted materials of construction are 316 stainless steel and CPVC, with double o-ring seals of EPR. The outer o-ring absorbs any chemical attack, allowing the inner to provide reliable sealing in a protected environment. A 5" long cartridge containing a combination pH or ORP sensor snaps into the end of the stainless steel body. TC elements are potted in the body itself. Leads are 10' standard, with an optional j-box available.

Process connections are made via a bored through swage fitting with 3/4" NPT threads. This fitting can be screwed into a line, a tank, or the optional wet-tap valve assembly. It can be turned around and connected to a standpipe for submersible use. It is recommended primarily for difficult insertion applications, but its small footprint and ease of access make it a good choice for general purpose submersion use as well.



REVERSE DIRECTION OF SWAGE FITTING AND THREAD ONTO A STANDPIPE FOR SUBMERSIBLE USE. CAN BE SWAGED ONTO THE SENSOR BODY AT ANY POINT AT LEAST 6 INCHES FROM THE ELECTRODE TIP.



NOTE: WITH JUNCTION BOX (-JB) OPTION AND NO VALVE ASS'Y (SSV), RATINGS ARE 400 PSIG AT 100°C.

SPECIFICATIONS

MAX. PRESSURE/TEMP. RATINGS:

Standard Sensor - 100 PSIG at 100°C
Hi Temp. Sensor - 75 PSIG at 120°C
Valve Assembly - 50 PSIG at all temps.

WETTED MATERIALS:

Body - 316 Stainless Steel
Insulator - CPVC std, Teflon Hi Temp.
O-Rings - EPDM

MATCHING PREAMPLIFIERS:

Are available to fit inside the J-Box and allow operation with a variety of instrument makes and models

CONNECTIONS:

Process - 3/4" NPT for sensor/1" NPT for valve

Electrical - Stripped and tinned ends on cable; optional j-box has 3/4" hub and terminal strip to accept plain stripped wire ends, 14-24 ga.

TEMPERATURE COMPENSATION:

10KΩ@25°C/32.66KΩ@0°C NTC is standard. Available options include Pt1000, Pt100, 3K BALCO, 8.55K NTC, Ni100 and many others. Reference the make and model of instrument for assistance in selecting the right element.



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