

pH, ORP and Conductivity immersion assemblies

Features

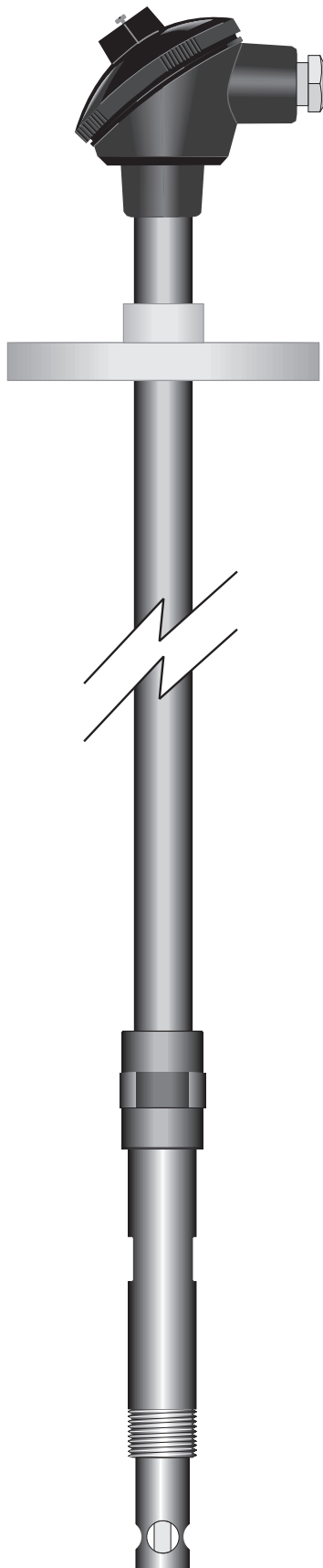
- ◆ Ideal for installing electrodes into tanks and pits
- ◆ Protects electrode cable
- ◆ Versatile design suits most open tank applications
- ◆ Incorporates your choice of sensor from AIC's wide range of pH, ORP and conductivity electrodes
- ◆ Four standard immersion lengths of 0.5m, 1m, 1.5m and 2m.
- ◆ Custom immersion lengths available to order

AIC immersion assemblies are built from chemically resistant polypropylene. The assemblies are supplied in conjunction with AIC's range of pH, ORP or conductivity sensors.

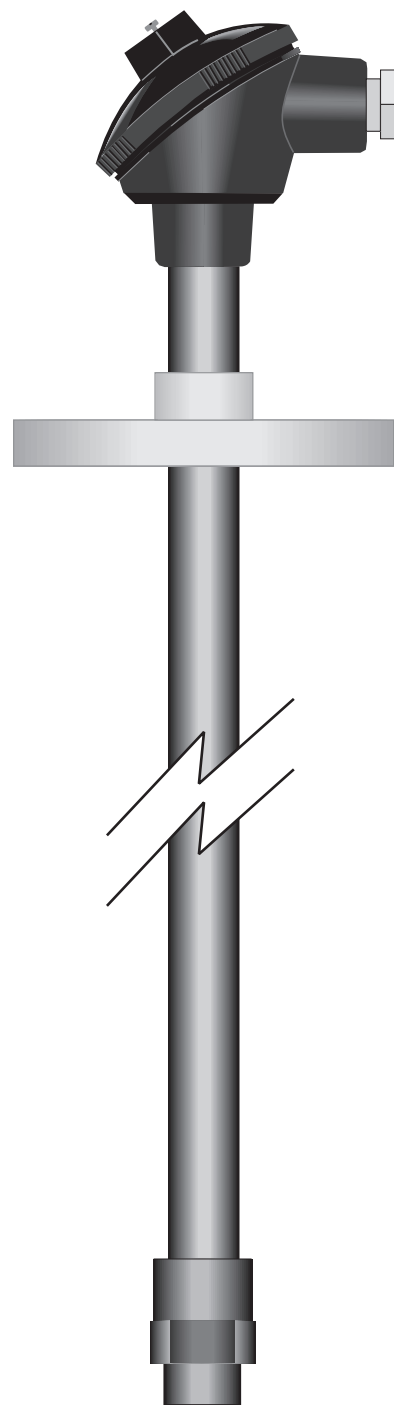
The sensor is installed into the measuring end of the assembly and is easily replaced when necessary. The cable is contained within the assembly and is protected from the process solution. The removable head cap makes feeding the pH and ORP electrode cable through the assembly simpler and prevents the cable from being twisted. Conductivity models feature an inbuilt terminal connector within the junction head.

The assembly incorporates a PVC flange which may be adapted to suit most tank monitoring installations.

AIC's range also includes pH and ORP electrodes with inbuilt 4-20mA 2 wire loop powered transmitters/isolators. These are available in immersion and in-line models.



Submersible pH electrode (example)



Submersible conductivity electrode (example)

PHXXCOIM-1.2-0



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Order Code

Immersion assemblies for pH and ORP electrodes as listed below.

Model Number	Immersion Depth
IMM-PH0.5MF	0.5m immersion approx.
IMM-PH1.0MF	1.0m immersion approx.
IMM-PH1.5MF	1.5m immersion approx.
IMM-PH2.0MF	2.0m immersion approx.

Immersion assemblies come with 115mm diameter flange.

These assemblies are suitable for the following pH and ORP electrodes.

Model Number	Description
pH electrodes	
P-PHANPC10MBN	½" NPT thread, single junction, 10m cable with BNC connector.
P-PHSP121K10MBN	¾" BSP thread, single junction, Pt1000 temperature sensor, 10m cable with BNC connector.
P-PHAN051K10MBN	¾" BSP thread, replaceable cartridge double junction, flat surface, Pt1000 temperature sensor, 10m cable with BNC connector.
P-PHAN071K10MBN	¾" BSP thread, replaceable cartridge double junction, glass bulb, Pt1000 temperature sensor, 10m cable with BNC connector.
P-PHAN611K10MBN	¾" NPT thread, double junction, glass bulb, high temperature, Pt1000 temperature sensor, 10m cable with BNC connector.
P-PHAN681K10MBN	1" NPT thread, triple junction, glass bulb, high temperature, Pt1000 temperature sensor, 10m cable with BNC connector.
ORP electrodes	
P-ORANPC10MBN	½" NPT thread, single junction, 10m cable with BNC connector.
P-ORSP1210MBN	¾" BSP thread, single junction, 10m cable with BNC connector.
P-PHOR011K10MBN	¾" BSP thread, replaceable cartridge double junction, flat surface, Pt1000 temperature sensor 10m cable with BNC connector.
P-ORAN6110MBN	¾" NPT thread, double junction, glass bulb, high temperature, 10m cable with BNC connector.
P-ORAN6810MBN	1" NPT thread, triple junction, glass bulb, high temperature, 10m cable with BNC connector.

For more detailed information on each electrode, check with individual data sheet.

Variations available on special order:

Inbuilt temperature sensor (where applicable)
 - Pt100 (100 Ohm RTD)
 - Custom sensor

Custom immersion length
 - consult factory

Order Code

Conductivity electrode K=1.0 with inbuilt Pt100 RTD temperature sensor & junction head termination

0.5m immersion length

IMM-K=1THRT0.5M K=1 conductivity electrode

1.0m immersion length

IMM-K=1THRT1.0M K=1 conductivity electrode

1.5m immersion length

IMM-K=1THRT1.5M K=1 conductivity electrode

2.0m immersion length

IMM-K=1THRT2.0M K=1 conductivity electrode

Variations available on special order:

Without flange

Alternative temperature sensor

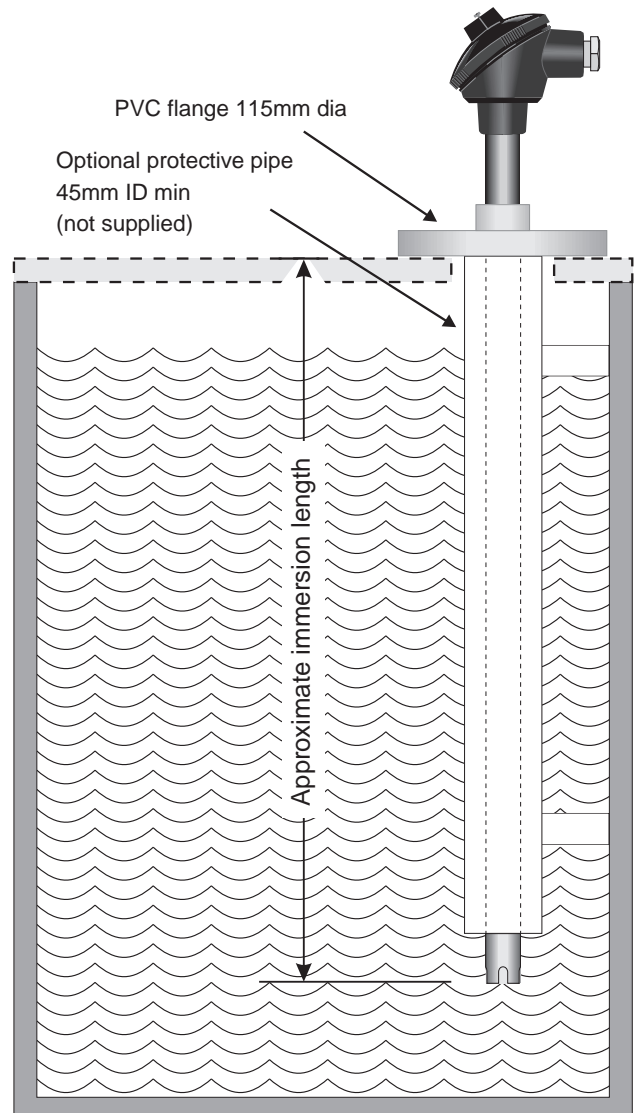
- Pt1000 (1000 Ohm RTD)
 - Custom sensor

Custom immersion length

- consult factory

Alternative conductivity cell

- AIC cells or imported cells



Application example - submersible electrode