

ORP electrodes with replaceable sensing cartridges



Replacement cartridges screw into reusable housing. An electrode with replaceable pH cartridges is also available.



- ◆ Huge cost savings with replaceable cartridges
- ◆ Easy installation of sensing cartridges minimises application "down time"
- ◆ Teflon junctions feature *POLARIS* porous polymer & *DYNAGEN* self-pressurising gel technologies
- ◆ Reusable housing with temperature sensor and cable.
- ◆ Three temperature sensor options:
 - Pt1000 RTD (recommended)
 - Pt100 RTD
 - Custom - consult supplier
- ◆ Three cable lengths:
 - 1 metre
 - 5 metre
 - 10 metre
- ◆ 3/4" BSP thread at each end for inline process insertion or fixing to an immersion assembly.
- ◆ 3 bar pressure rating
- ◆ Wetted materials: PVC, abs, Viton O-ring, glass, platinum

The range of replaceable cartridge ORP electrodes offers unparalleled flexibility and economy.

The reusable electrode housing is available with a temperature sensor and includes the cable. The housing is threaded for inline or submersible operation with a 3/4" BSP thread. Submersible operation requires the fitting of a rigid standpipe to the cable end thread of the electrode housing. A quick release adaptor is available to minimise downtime for maintenance or replacement in inline applications.

As only one housing is required, the user will be assured of great savings in ORP probe replacement costs. Only the sensing cartridge needs to be replaced.

The interchangeable cartridges screw into the housing and are very easy to replace.

A Chlorine resistant PVC housing is also available with 10m cable.



pH/ORP body with platinum ring element shown installed in quick removal in-line adaptor PHACC-32/1.25



Description	Cartridge Part Number
Platinum ring, Teflon junction Temperature rating 60°C	P-OR-ROB1-0001

ORREPLAC-5.1-0

AMALGAMATED INSTRUMENT CO PTY LTD

ACN: 001 589 439

Unit 5, 28 Leighton Place Hornsby
NSW 2077 AUSTRALIA

Telephone: +61 2 9476 2244
Facsimile: +61 2 9476 2902

e-mail: sales@aicpl.com.au
Internet: www.aicpl.com.au

Order Codes for Replaceable Element Electrodes

Model Number	Replaceable Sensor Description	Temperature Sensor	cable length
P-ORPVB1RT01MBN	Platinum ring Teflon Junction	Pt100	1 metre
P-ORPVB1RT05MBN	Platinum ring Teflon Junction	Pt100	5 metre
P-ORPVB1RT10MBN	Platinum ring Teflon Junction	Pt100	10 metre
P-ORPVB11K01MBN	Platinum ring Teflon Junction	Pt1000	1 metre
P-ORPVB11K05MBN	Platinum ring Teflon Junction	Pt1000	5 metre
P-ORPVB11K10MBN	Platinum ring Teflon Junction	Pt1000	10 metre

What is *POLARIS*?

POLARIS is the high porosity polymer used in the reference junctions of the P-OR-ROB1-0001 cartridge.

The polymer provides a superior surface area for ion diffusion but prevents contamination of the reference by the test solution.

The honeycomb configuration of the material combined with the tortuous path throughout *POLARIS* allows for normal migration of ions but not process contaminates.

Accessories	
Description	Part Number
In-line quick removal adapter 1¼" BSP thread	PHACC-32/1.25
BNC to bootlace pin adapter	P-BNC/BP-100
Ask about calibration solutions	

What is *DYNAGEN*?

DYNAGEN (dynamic generated reference) self pressurising gel gives a constant ion transfer.

When the electrode is inserted into your process, *DYNAGEN* begins to expand within the reference chamber. The internal pressure, therefore, ensures that fresh ions are available where most needed.

DYNAGEN is used in the P-OR-ROB1-0001 cartridge.



BNC to "bootlace" pin adaptor
Order Number: P-BNC/BP-100