

ORP electrodes with replaceable sensing cartridges

- ◆ Huge cost savings with replaceable cartridges
- ◆ Easy installation of sensing cartridges minimises application “down time”
- ◆ Two electrode styles available:
 - Platinum pin, single junction reference
 - Platinum ring, Teflon double junction reference
- ◆ 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.
- ◆ Wetted materials: Delrin, ABS, Viton O-ring, glass, platinum





An electrode with replaceable cartridges is also available for pH applications



Replacement cartridges screw into reusable housing.



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 adapter 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.

	Description	Application	Cartridge Part Number
	Platinum pin, single junction Temperature rating 50°C	“Clean water” applications	P-OR-RBLP-SJ01
	Platinum ring, Teflon junction Temperature rating 60°C	More aggressive solutions	P-OR-ROB1-0001

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

Order Codes for Replaceable Element Electrodes

Model Number	Replaceable Sensor Description	Temperature Sensor	cable length
P-ORRBLPRT01MBN	Platinum pin Single Junction	Pt100	1 metre
P-ORRBLPRT05MBN	Platinum pin Single Junction	Pt100	5 metre
P-ORRBLPRT10MBN	Platinum pin Single Junction	Pt100	10 metre
P-ORRBLP1K01MBN	Platinum pin Single Junction	Pt1000	1 metre
P-ORRBLP1K05MBN	Platinum pin Single Junction	Pt1000	5 metre
P-ORRBLP1K10MBN	Platinum pin Single Junction	Pt1000	10 metre
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P-ORROB1RT01MBN	Platinum ring Teflon Junction	Pt100	1 metre
P-ORROB1RT05MBN	Platinum ring Teflon Junction	Pt100	5 metre
P-ORROB1RT10MBN	Platinum ring Teflon Junction	Pt100	10 metre
P-ORROB11K01MBN	Platinum ring Teflon Junction	Pt1000	1 metre
P-ORROB11K05MBN	Platinum ring Teflon Junction	Pt1000	5 metre
P-ORROB11K10MBN	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.

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.

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	



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