

# pH electrodes with replaceable sensing cartridges



An electrode with replaceable cartridges is also available for ORP



Replacement cartridges screw into reusable housing.



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

- ◆ Huge cost savings with replaceable cartridges
- ◆ Easy installation of sensing cartridges minimises application "down time"
- ◆ Three electrode styles available:
  - Round glass - Teflon junction with protective guard
  - Flat surface - Teflon junction self cleaning for solutions with particulates or viscous solutions
  - Conical glass - general use with single junction for "clean water" applications
- ◆ 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, TEFLON




The range of replaceable cartridge pH 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 pH 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
	Conical glass, single junction pH range 0 to 12 Temperature rating 50°C	"Clean water" applications	P-PH-HLSP-SJ01
	Round glass, Teflon junction pH range 0 to 14 Temperature rating 60°C	More aggressive applications	P-PH-HOB1-0007
	Flat glass, Teflon junction pH range 0 to 14 Temperature rating 60°C	More aggressive viscous or particulate bearing solutions	P-PH-HOB1-0005

## Order Codes for Replaceable Element Electrodes

Model Number	Replaceable Sensor Description	Temperature Sensor	cable length
P-PHHSLPRT01MBN	Conical glass Single Junction	Pt100	1 metre
P-PHHSLPRT05MBN	Conical glass Single Junction	Pt100	5 metre
P-PHHSLPRT10MBN	Conical glass Single Junction	Pt100	10 metre
P-PHHSLP1K01MBN	Conical glass Single Junction	Pt1000	1 metre
P-PHHSLP1K05MBN	Conical glass Single Junction	Pt1000	5 metre
P-PHHSLP1K10MBN	Conical glass Single Junction	Pt1000	10 metre
P-PHAN05RT01MBN	Flat glass Double Junction	Pt100	1 metre
P-PHAN05RT05MBN	Flat glass Double Junction	Pt100	5 metre
P-PHAN05RT10MBN	Flat glass Double Junction	Pt100	10 metre
P-PHAN051K01MBN	Flat glass Double Junction	Pt1000	1 metre
P-PHAN051K05MBN	Flat glass Double Junction	Pt1000	5 metre
P-PHAN051K10MBN	Flat glass Double Junction	Pt1000	10 metre
P-PHAN07RT01MBN	Bulb glass Double Junction	Pt100	1 metre
P-PHAN07RT05MBN	Bulb glass Double Junction	Pt100	5 metre
P-PHAN07RT10MBN	Bulb glass Double Junction	Pt100	10 metre
P-PHAN071K01MBN	Bulb glass Double Junction	Pt1000	1 metre
P-PHAN071K05MBN	Bulb glass Double Junction	Pt1000	5 metre
P-PHAN071K10MBN	Bulb glass Double Junction	Pt1000	10metre

### What is **POLARIS**?

*POLARIS* is the high porosity polymer used in the reference junctions of P-PH-HOB1-0007 and P-PH-HOB1-0005 cartridges.

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-PH-HOB1-0007 and P-PH-HOB1-0005 cartridges.

Accessories	
Description	Part Number
In-line quick removal adapter 1 ¼" BSP thread	PHACC-32/1.25
BNC to bootlace pin adapter	P-BNC/BP-100
Ask about buffer, cleaning and storage solutions	



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