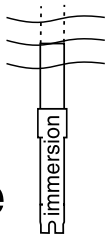


AN61 Series pH/ORP Sensors

3/4" NPT threaded industrial electrodes
featuring high temperature/superior performance



- *Polaris* high porosity polymer reference junction provides a superior amount of surface area that will not plug or clog quickly from process particulates.
- *Dynagen* self pressurising reference gel resists contamination in severe applications.
- Double junction reference prolongs electrode life.
- Polypropylene, glass & stainless steel wetted materials ensure greater process compatibility
- Rugged industrial dome bulb is typically 5 times tougher than conventional glass bulbs.
- Highly responsive inbuilt Pt1000 (1000Ω RTD) temperature sensor. Pt100 (100Ω RTD) or custom sensor to order.
- 3/4" NPT thread at each end allows a variety of installation methods.
- All encompassing bulb guard reduces sensing membrane damage.
- Rugged 10m cable with BNC connector standard.

The AN61 series pH sensor features the revolutionary "*Polaris*" reference junction with "*Dynagen*" gel and a double junction reference. This reference junction combination fights contamination in even the toughest of applications. Housed in a polypropylene body, the model AN61 resists chemical corrosion and heat stress breakdown. Standard 3/4" NPT threads on front and rear of housing allows for a greater variety of process mounting configurations.

Specifications

pH range:	0 to 14 pH
Temp range:	0 to 80°C intermittent to 100°C
Response time:	95% <15 seconds (in buffers)
Pressure:	7 bar (100 psi)
Cable length:	10 metres (standard)
Connections:	BNC for pH electrode (+ wire tails for temperature)
Reference junction:	<i>Polaris</i> polymer membrane
Reference cell:	<i>Dynagen</i> cross link gel double junction
Wetted materials:	Polypropylene, glass & S/steel (Pt in ORP)
Temp compensation:	Pt1000 RTD (standard)

Order codes

pH sensor with inbuilt Pt1000 (standard for AIC products)	
Order code:	P-PHAN611K10MBN
pH sensor with inbuilt Pt100	
Order code:	P-PHAN61RT10MBN
ORP sensor (no temperature sensor)	
Order code:	P-ORAN6110MBN



What is POLARIS?

Polaris is a high porosity polymer material which when used as a pH electrode reference junction, provides a superior amount of surface area that will not plug or clog quickly from process particulates.

The high porosity of the *Polaris* junction allows ion diffusion to be very constant in processes containing high particle concentrations. The honeycomb configuration of this material combined with the tortuous path throughout *Polaris* allows for normal migration of ions but not process contaminants.

Processes with hydrocarbons or organics become less challenging and these electrodes last longer, requiring less maintenance and replacement costs.

What is DYNAGEN ?

Dynagen (dynamic generated reference) self pressurising gel combines a unique "cross link gel base" that allows a constant ion transfer. This enables the electrolyte to provide fresh ions within the electrode reference chamber when and where most needed.

Upon insertion into your process, *Dynagen* will begin to expand within the reference chamber, thus creating its own internal pressure. This unique feature provides immediate results, significantly increasing the reference electrode's life.