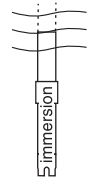


# AF61 Series pH & ORP Sensors

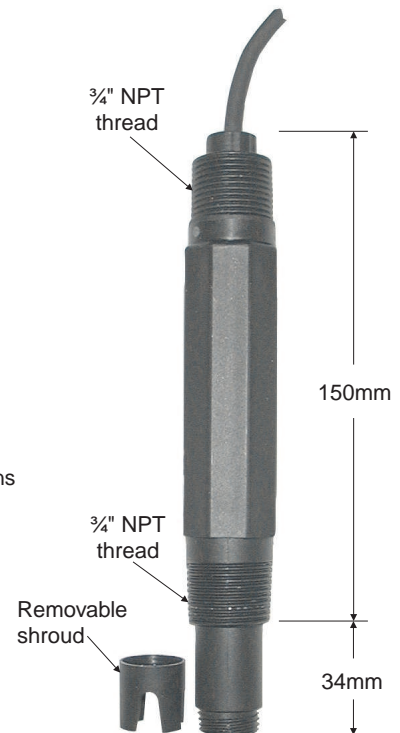
Universal, economical, 3/4" NPT threaded industrial flat surface electrodes with superior performance



- Universal electrodes for inline & immersion applications
- *Duragel* reference provides a stable E(zero) and a long life.
- Double junction reference further prolongs electrode life and resists contamination.
- Polypropylene, glass and stainless steel (plus platinum in ORP) wetted materials ensure greater process compatibility.
- Rugged flat surface "self-cleaning" sensing element
- Highly responsive inbuilt Pt1000 and Pt100 temperature compensation sensors in pH electrode. Both sensors are included in pH electrode
- 3/4" NPT thread at each end allows a variety of installation methods.
- Rugged 10m cable with BNC connector standard.
- Screw-on shroud offers protection to sensing surface in immersion applications and should be removed for inline use.



Detail of pH electrode tip showing the flat surface membrane, temperature sensors & reference junctions



BNC to pin adapter - P-BNC/BP-100

The AF61 series pH & ORP sensors feature the revolutionary *Duragel* reference and a double junction reference. This reference junction combination fights contamination in even the toughest of applications. Housed in a polypropylene plastic body, the model AF61 resists chemical corrosion and heat stress breakdown. Standard 3/4" NPT threads on front and rear of housing allow for a greater variety of process mounting configurations. The measuring surface and reference protrude approximately 34 mm from the base of the threads on the process side. With the protective shroud installed, the protrusion is 46mm.

The flat surface design means that flowing process streams clean the sensing surface and the build up of contaminants is minimised.

This design makes the AF61 series ideal for use in inline installations in waste water streams, canals, ozone generation systems, cooling towers, water treatment plants or anywhere where periods between electrode maintenance may need to be extended.

## Specifications

pH range:	0 to 14 pH
ORP range	0 to 1000mV
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 or ORP electrode (+ wire tails for temperature)
Reference cell:	<i>Duragel</i> supersaturated KCl double junction
Wetted materials:	Polypropylene, glass & S/steel (plus platinum in ORP model)
Temp compensation:	Pt1000 and Pt100 RTD in pH model only

## Temperature sensor colour code

Pt100 RTD	Red & Black leads
Pt1000 RTD	Green & White leads

## Order codes

pH sensor with Pt1000 & Pt100 temperature sensors  
Order Code: P-PHAF61PT10MBN

ORP sensor with platinum disc  
Order Code: P-ORAF6110MBN

PHAF61-3-0.0

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