

# Model OPF 11 pH Electrode



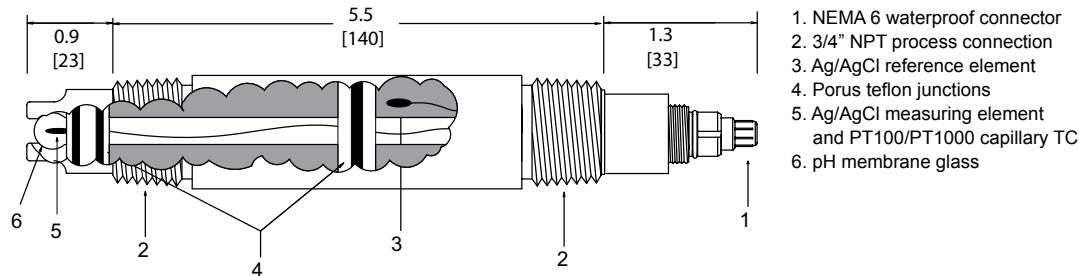
## All purpose pH electrode with integrated temperature sensor and 3/4" MNPT process connection

- Patented Teflon® junction and polymer gel electrolyte delivers high performance and low maintenance
- Advanced double chamber reference system prevents fouling in harsh industrial conditions
- Durable 0-14 pH sensitive glass can withstand CIP treatment and operating temperatures up to 110°C (230°F)
- Capillary Pt100 RTD, Pt1000 RTD positioned at the tip of the electrode ensures optimum response and accuracy at extreme temperatures
- Solution ground and ORP options available
- Self-cleaning flat surface pH membrane option
- NEMA 6 rated detachable cable system provides the convenience of a quick connect with the reliability of a fixed cable



**For use in a variety of general purpose applications such as acid-base neutralization, chemical stream monitoring, water and wastewater treatment, and pigment and dye manufacturing**

OPF 11	Specifications
Measurement range	pH 0 - 14, ORP -1500 to + 1500 mV
Maximum measurement error	± 0.05 pH ± 3 mV ORP
Pressure range	0 to 10.3 bar (0 to 150 psig)
Temperature range	0 to 110°C (32 to 230°F)
Minimum conductivity	10 µS/cm
Electrolyte	3 mol KCl Polymer gel
Response time (@ 25°C / 77°F)	95% of reading in 10 seconds
Materials of construction	Ryton® molded body. Porous Teflon® reference junction with Viton® O-rings



**Dimensions Diagram**

- 1. NEMA 6 waterproof connector
- 2. 3/4" NPT process connection
- 3. Ag/AgCl reference element
- 4. Porus teflon junctions
- 5. Ag/AgCl measuring element and PT100/PT1000 capillary TC
- 6. pH membrane glass

OPF11					
	<b>LH</b>	<b>Measuring Element</b>			
	<b>PB</b>	0 - 14pH, 0 - 110°C, Double Junction pH			
		Platinum Band ORP, Double Junction			
		<b>Version</b>			
		<b>1</b>	0.9" Insertion, Protective Guard		
		<b>2</b>	0.5" Insertion, Flat, Self Cleaning Surface		
		<b>Solution Ground</b>			
		<b>1</b>	No Solution Ground		
		<b>2</b>	Solution Ground Added		
		<b>Probe</b>			
		<b>C</b>	Pt100 Temperature Element (not ORP)		
		<b>E</b>	Pt1000 Temperature Element (not ORP)		
		<b>G</b>	3Kohm NTC Thermistor (not ORP, non-capillary)		
		<b>Plug-In Head</b>			
		<b>8</b>	NEMA 6 Waterproof Connector (Requires NEMA 6 Cable)		

**Order Code**

Cables	Shielded pH Cable with NEMA 6 Waterproof Connector, Stripped and Tinned Ends, with Internal Solution Ground Lead (For Use With Model 802 Field Mount Analyzer)
OPK9-NPA1B	1.5 Meter
OPK9-NQA1B	3 Meter
OPK9-NAA1B	5 Meter
OPK9-NBA1B	10 Meter
OPK9-NCA1B	15 Meter
OPK9-NDA1B	20 Meter
Cables	Shielded pH Cable with NEMA 6 Waterproof Connector, BNC and Tinned Ends, with Internal Solution Ground Lead (For Use With Model 800 Panel Mount Analyzer)
OPK9B-NPA1B	1.5 Meter
OPK9B-NQA1B	3 Meter
OPK9B-NAA1B	5 Meter
OPK9B-NBA1B	10 Meter
OPK9B-NCA1B	15 Meter
OPK9B-NDA1B	20 Meter
Calibration Solutions	Calibration Solutions
OPY 21	NIST Traceable pH Calibration Solution, pH 4.00, 1000ml
OPY 23	NIST Traceable pH Calibration Solution, pH 7.00, 1000ml
OPY 30	NIST Traceable ORP Calibration Solution, Value: +220mV @ pH 7.00, 1000ml
OPY 31	NIST Traceable ORP Calibration Solution, Value: +468 @ pH 7.00, 1000ml
Installation Housings	Installation Housings
OPA 611	Immersion

**Accessories**

Wedgewood Analytical, Inc.  
 4123 East La Palma Avenue, Suite 200  
 Anaheim, CA 92807  
 Toll Free: 1-800-835-5474  
 Direct: 1-714-577-5600  
 Fax: 1-714-577-5688  
[www.WedgewoodAnalytical.com](http://www.WedgewoodAnalytical.com)