

Model OPF19

Process pH Sensor



“Severe Service”

Applications:

- Chemical and petrochemical
- Boiler flue gas scrubbers
- Hot processes
- Water and wastewater treatment
- Process monitoring and control
- Strong acid / base neutralization

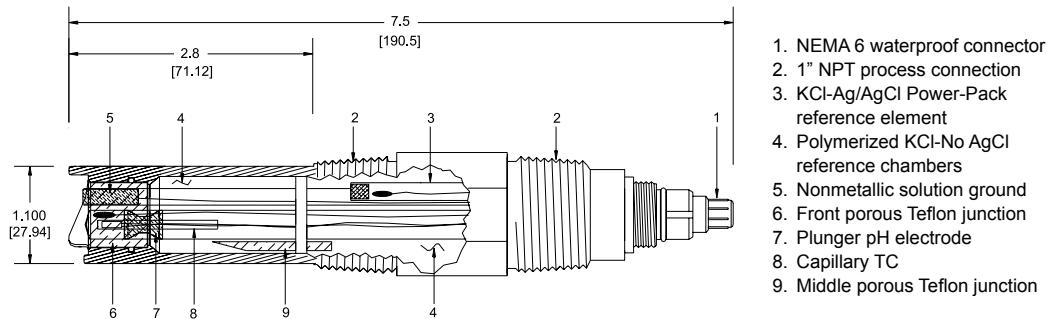


All purpose “severe service” industrial sensor with triple junction, nonfouling reference cell, built in temperature compensator, solution ground and 1" MNPT process connection

- Patented plunger pH measuring electrode
- Triple junction reference cell - minimize poisoning potential
- “Power Pack” Ag/AgCl cartridge for high temperature performance
- Non-fouling porous Teflon® liquid junctions
- Flat surface glass membrane
- “Scalloped” guard to protect flat pH membrane and promote self-cleaning effect
- Fast-responding temperature compensator
- TOP68 quick disconnect cable connector, NEMA 6
- Cast-in-place solid polymer electrolyte
- Integrated non-metallic solution ground



OPF19	Specifications
Measurement range	pH 0 - 14
O-rings	Viton®
Body material	Ryton®
Temperature range	0 to 110 °C (32 to 230 °F)
Pressure range	0 to 10.3 bar (0 to 150 psig)
Drift	< 2.0 mV/week
Response time @25°C	95 % of reading in 15 seconds
Asymmetry potential	7.0 pH ± 0.2 pH
Theoretical slope	± 59.16 mV /pH unit @ 25 °C (77 °F)
Sodium error	< 0.05 pH in 0.1 Molar Na+ Ion @ 12.8 pH
pH glass bulb impedance @ 25 °C	1,000 Megohms



Dimensions Diagram

OPF19		Order Code					
LP		Measuring Element					
PB		0 - 14 pH, 0 - 110 °C, triple junction pH Platinum ORP, triple junction					
1		Version					
1		2.8" insertion, protective guard					
2		Solution Ground					
		Solution ground added					
B		Probe					
C		ORP, no temp comp					
E		Pt 100 temperature element (not ORP)					
8		Plug-In Head					
		NEMA 6 waterproof connector (Requires NEMA 6 cable)					

Intelligent sensor with Memosens technology

OPF19D		Order Code					
LP		Measuring Element					
PB		0 - 14 pH, 0 - 110 °C, triple junction pH					
1		Version					
1		2.8" insertion, protective guard					
1		Solution Ground					
		No solution ground					

		Accessories
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	
		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	
Shielded pH cable with Memosens connector, stripped and tinned ends		
OYK10-A031	3 meter	
OYK10-A051	5 meter	
OYK10-A101	10 meter	
OYK10-A201	20 meter	
Calibration Solutions		
OPY 21	NIST traceable pH calibration solution, pH 4.00, 1000 ml	
OPY 23	NIST traceable pH calibration solution, pH 7.00, 1000 ml	
OPY 30	NIST traceable ORP calibration solution, value: +220 mV @ pH 7.00, 1000ml	
OPY 31	NIST traceable ORP calibration solution, value: +468 @ pH 7.00, 1000 ml	
Installation Housings		
OPA 611	Immersion	