

Model GTDJ pH / ORP Electrode



Steam sterilizable pH / ORP electrode with double chamber gel filled reference system



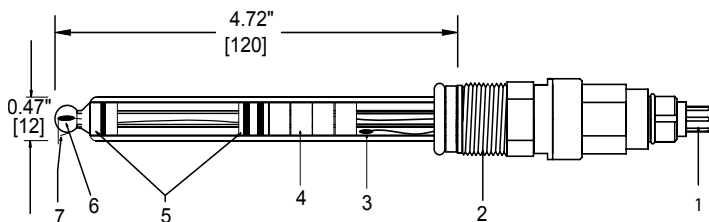
- Gel filled electrolyte delivers high performance and low maintenance
- Advanced reference configuration featuring patented Teflon® junctions prevents drift and fouling
- Internal compensators for use in processes with fluctuating pressure and temperature
- Durable 0-14 pH sensitive glass can withstand CIP treatment and SIP temperatures up to 135°C (275°F)
- Integrated temperature sensor option available
- 12mm design allows for installation in fixed or retractable housings
- NEMA 6 rated detachable cable system provides the convenience of a quick connect with the reliability of a fixed cable



For use in process applications including fermentation, cell culture, chromatography, filtration, buffer preparation, food and beverage processing

Specifications

Measurement range	pH: 0 - 14 ORP: -1500 to + 1500mV
Maximum measurement error	pH ±0.05 ORP ±3mV
Pressure range	0 to 34.4bar (0 to 500psig) @25°C
Temperature range	- 5 to 135°C (23 to 275°F)
Minimum conductivity	10 µS/cm
Electrolyte	Saturated KCl / AgCl (rear chamber) KCl / AgCl-free (front chamber)
Response time (@ 25°C / 77°F)	95% of reading in 10 seconds



1. NEMA 6 waterproof connector
2. PG13.5 mounting threads
3. Ag/AgCl reference element
4. Salt rings
5. Teflon diaphragm
6. Ag/AgCl measuring element
7. pH membrane glass

Dimensions

GTDJ		2	ESA	FSA	Swivel Nut with NEMA 6 waterproof connector (requires NEMA 6 cable)
	Electrode Type				
	0	ORP Electrode			
	1	pH with No Temperature Element			
	2	pH Combination Electrode with Pt100 Temperature Element			
	3	pH Combination Electrode with Pt1000 Temperature Element			
	Measuring Element				
	PB	Platinum Band Electrode (ORP)			
	BA	0 - 14pH, -5 to 135°C, Sterilizable (pH)			

Order Code

Cables

Shielded pH Cable with NEMA 6 Waterproof Connector, Stripped and Tinned Ends

OPK9-NPA1A	1.5 Meter
OPK9-NQA1A	3 Meter
OPK9-NAA1A	5 Meter
OPK9-NBA1A	10 Meter
OPK9-NCA1A	15 Meter
OPK9-NDA1A	20 Meter

Shielded pH Cable with NEMA 6 Waterproof Connector, BNC and Tinned Ends

OPK9B-NPA1A	1.5 Meter
OPK9B-NQA1A	3 Meter
OPK9B-NAA1A	5 Meter
OPK9B-NBA1A	10 Meter
OPK9B-NCA1A	15 Meter
OPK9B-NDA1A	20 Meter

Calibration Solutions

OPY21	NIST Traceable pH Calibration Solution, pH 4.00, 1000ml
OPY23	NIST Traceable pH Calibration Solution, pH 7.00, 1000ml
OPY30	NIST Traceable ORP Calibration Solution, Value: +220mV @ pH 7.00, 1000ml
OPY31	NIST Traceable ORP Calibration Solution, Value: +468 @ pH 7.00, 1000ml

Installation Housings

OPA442, 640	Fixed Housing
B60x	In-line Hygienic
OPA475	Hygienic Retractable
OPA450, 471, 472, 473	Industrial Retractable
OPA111	Industrial Submersible

Accessories



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