

Icon Process P14 Series pH Sensors



The ProCon® P14 Series pH Sensors (featuring SimplCal®) include advanced electronic circuitry that stores pH data for automatic sensor recognition and trouble-free calibration when connected to the ProCon® Controller. P14 Series pH sensors incorporate Nexus®, a solid reference material that eliminates poisoning or leaching of the reference electrolyte that occurs in standard sensors. Nexus® also eliminates the need for ongoing maintenance or cleaning requirement due to fouling or film build up removal which occurs with traditional pH sensors. They are available in multiple configurations including flying lead and blind/local display j-box for maximum versatility. The universal NPT 3/4" connections are designed for mounting on pipe, wall, or tank. J-box versions are equipped standard with quick grip wire connection making installation easy — no tools required. Connect with any ProCon® controller for seamlessly easy calibration. Direct sensor to controller — no preamp required. Manufactured by Icon Process Controls.

Features:

- 4-20mA Output
- Temperature Compensated
- No Preamp Required
- High Accuracy
- Quick Response Time
- 3/4" NPT Connection
- PP or PPS Body Materials
- RS 485 Modbus Communication
- Double junction reference extends sensor life and protects against poisoning ions
- Durable crack resistant low ionic glass enhances performance and increased reliability
- Operates in sub-zero temperatures down to 14°F (-10°C)
- Advanced electronic diagnostics provides excellent repeatability and reliability

MODEL	PI4E	PI4G	PI4C	PI4H	PI4F	PI4S	PI4D	PI4P
APPLICABLE ENVIRONMENT	Chemical Process		Complex Environment	HF Acid < 1000ppm	HF Acid > 1000ppm	Seawater	Desulfurization Environment	Pure water/ low ion concentration
MEASURING RANGE	0 – 14pH			0 – 12pH		0 – 14pH	0 – 12pH	
ZERO POTENTIAL	7.00 ± 0.25							
TEMPERATURE RANGE	0 – 90°C							
PRESSURE	0 – 90 Psi							
TEMPERATURE SENSOR	Pt1000 (std)							
SHELL MATERIAL	PP							
MEMBRANE RESISTANCE	<600M		<500M	<600M			<800M	
REFERENCE SYSTEM	Ag / AgCl / KCl		NEXUS® Ag / AgCl / KCl					
LIQUID JUNCTION	Porous Ceramics	PTFE Teflon®	NEXUS®					
ELECTROLYTE SOLUTION	3.3M KCl Gel		3.3M KCl					
DOUBLE SALT BRIDGE SYSTEM	Yes							
CONNECTION THREAD	NPT 3/4"							
CABLE LENGTH	10m							
CABLE CONNECTION	J-Box Flying Lead							
OUTPUT	4-20mA 4-20mA + RS485							
PH ELECTRODE	Blue Glass Flat Bulb			Glass Bulb Flat	Antimony	Blue Glass Flat Bulb	Glass Bulb Flat	Blue Glass