

PH ELECTRODES FOR HIGH PERFORMANCE, HIGH TEMP. INDUSTRIAL APPLICATION Model TCHEM



<u>Membrane Glass</u>: A wide selection of different pH-sensitive glass membranes (Green, Blue etc.) ensures the best possible measurement performance, based on the application for Low pH/ HF applications/ Full Range/ High Alkaline etc.

Reference Fill & Construction: These electrodes are sealed with special HGel+ reference fill gel suitable for demanding industrial and process applications.

Temperature Compensation (Built In) (optional): The inbuilt temperature elements allow for the automatic compensation of Nernstian temperature effects in processes with wide pH ranges and significant temperature shifts. The temperature element is either a Pt100 or Pt1000 or 30K NTC, which are compatible with the majority of commercially available instruments.

<u>Reference System</u>: The sensor is provided with a Ag/ Ag Wire (Double Junction with Ceramic) reference system, to prevent & delay the reference fouling process.

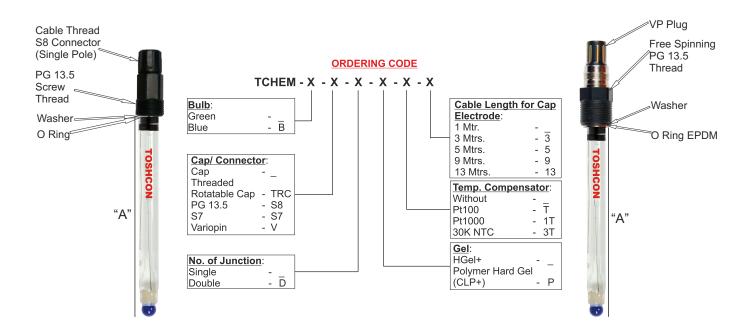
<u>Connections</u>: The Cap/ Threaded Rotatable Cap* (TRC)/ Variopin (V)/ S8/ S7 connections allows for a multiple connection suiting different needs; both pH signal and temperature signal in the same wiring harness.

<u>pH</u>: The TCHEM family of pH electrodes are ideal for any industry for low or high pH, HF application or high temp. applications demanding high performance from an electrode.



TECHNICAL SPECIFICATIONS

1.	pH Range		0 - 14
2.	Operating Temperature	:	-5 to 100°C
3.	Slope	:	59 <u>+</u> 3 mV at 25°C
4.	Zero Point	:	pH 7
5.	Asymmetry Potential	:	0±25 mV
6.	No. of Junctions	:	Double
7.	Glass Membrane Impedance	:	<300 MΩ at 25°C
8.	Membrane Glass	:	Green (Fast response)
9.	Temp. Compensation	:	Pt100/ Pt1000/ 30K NTC
10.	Pressure	:	Up to 6 Bar at 25° C
11.	Reference Electrolyte	:	HGel+/CLP+
12.	Diaphragm	:	Annular Ceramic, Additional Ceramic
13.	Reference System	:	Ag/Ag Wire (Double Junction with Ceramic)
14.	pH Storage Solution	:	TOSHCON storage solution
15.	Shape of Membrane	:	Spherical
16.	Diameter	:	12 mm
17.	Shaft Length (A)	:	120 mm etc.
18.	Shaft Material	:	Glass
19.	ORing	:	EPDM (in case of S8/S7/VP connectors etc.)
20.	Connector type	:	Cap/TRC* with BNC with Low-Noise Coaxial Cable or S8 (PG 13.5)/ S7 or Variopin (V) or any other connector requested.
21.	Suitability	:	Suitable/ compatible with mostly all make instruments.



OTHER INDUSTRY:

Pharma, Petrochemical, Swimming Pools, Aquarium, Extreme pH (Acidic), Extreme pH (Alkali), Narrow Electroplating, Food, Chemical, Fertilizer, Dairy, Oil, Vessel/ Semi Micro, Low Ionic/ Ultrapure, Oil/ Water Drinking Water, Ground Water, Waste Water

OTHER APPLICATIONS:

Emulsion, HF, Low Temp. (-30°C), High Temp. (135°C), Steam Sterilisable

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