

## 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.

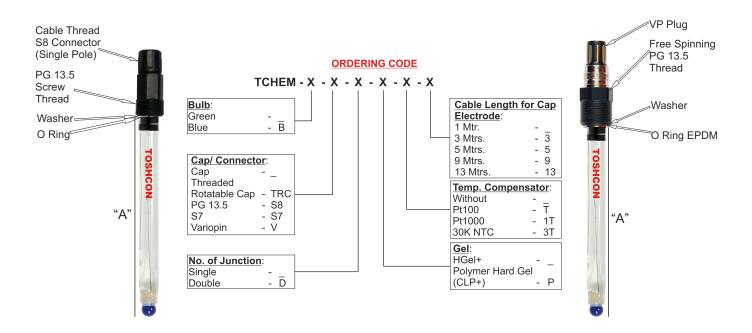
**<u>Connections</u>**: The Cap/ Threaded Rotatable Cap\* (TRC)/ Variopin (V)/ S8/ S7 connections allows for a multiple connection suiting different needs; both pH signal and temperature signal in the same wiring harness.

**<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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