Toshcor

pH/ REDOX ELECTRODES FOR IDUSTRIAL/ AUTOCLAVABLE & STEAM STERILIZABLE

APPLICATIONS



Membrane Glass: A wide selection of different pH-sensitive glass membranes (Green) 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, CLP+ Hard Gel & HGel+ filled, sterilizable, autoclavable designs to suit high variations in Temperature, Pressure & other measuring conditions.

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 etc. which are compatible with the majority of commercially available instruments.

Solution Ground: The Solution Ground (optional) feature as a measuring point on a pH sensor improves grounding and effectively eliminates the risk of electrostatic interference. This also allows the use of our advanced diagnostic functions, and makes parallel pH/redox measurement possible.

Reference System: The sensor is provided with a Ag/AgCl reference system with a double junction to prevent & delay the diaphragm fouling process.

Connections: The Cap/ Threaded Cap* (TC)/ Variopin (V)/ S8/ S7 connections allow for multiple connections suiting different needs; both pH signal and temperature signal in the same wiring harness.

pH & Redox: The TFERM family of pH and Redox electrodes is ideal for Biotech applications, like fermentations. where autoclavations, steam sterilisations (SIP) and cleaning in place (CIP) procedures occur frequently.

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TECHNICAL SPECIFICATIONS:

pH Range 1.

2. **Operating Temperature** Up to 105°C (steam up to 140°C) 3. Slope 59 ±3 mV (95-105%) at 25°C

4. Zero Point pH7 Asymmetry Potential 5. 0+25 mV

No. of Junctions 6. Double Junction, Ceramic

<300 MΩ at 25°C 7. Glass Membrane Impedance

8. Membrane Glass Green

9. Temp. Compensation Pt100/Pt1000/30K NTC Up to 6 Bar at 25° C 10. Pressure 11. Reference Electrolyte CLP+ Hard Gel & HGel+

12. Diaphragm Glass Annular 13. Reference System Ag/AgCI

14. pH Storage Solution Saturated KCI/TOSHCON storage solution

15. Shape of Membrane Spherical 16. Diameter 12 mm

17. Shaft Length (A) 120, 225, 325, 425 mm etc.

Shaft Material 18.

19. **ORing** EPDM (in case of S8/S7/VP connectors etc.)

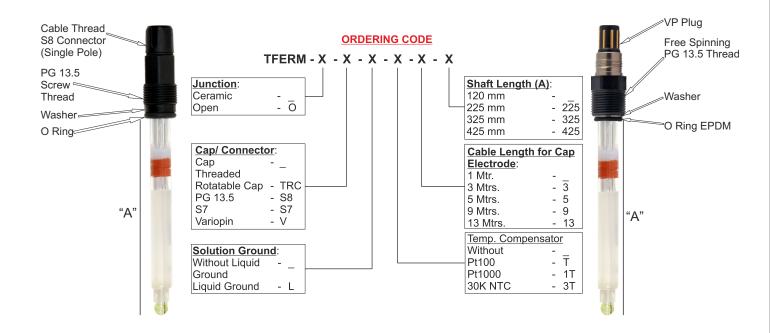
20. Autoclavable 21. CIP

22. Connector type Cap/TC* with BNC with Low-Noise Coaxial Cable or S8 (PG

13.5)/S7 or Variopin (V) or any other connector requested.

23. Solution Ground

24. Suitability Suitable/ compatible with mostly all make instruments.



OTHER INDUSTRY:

Electroplating, Food, Chemical, Fertilizer, Dairy, Oil, Vessel/ Semi Micro, Low Ionic/ Ultrapure, Oil/ Water Drinking Water, Ground Water, Waste Water

OTHER APPLICATIONS:

Pharma, Petrochemical, Swimming Pools, Aquarium, Extreme pH (Acidic), Extreme pH (Alkali), Narrow Emulsion, HF, Low Temp. (-30°C), High Temp. (135°C), Steam Sterilisable

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