

**pH/ REDOX ELECTRODES FOR  
HIGH PERFORMANCE IN ULTRA-PURE/ DE-IONIZED  
WATER APPLICATION**

**Model TPURE**



**Membrane Glass:** A wide selection of different pH-sensitive glass membranes (Blue) 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 3M KCl reference fill solutions.

**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.

**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 SREF+ reference system for highly stable results..

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

**pH & Redox:** The TPURE family of pH and Redox electrodes are ideal for ultra-pure/ de-ionised water application.

**TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.,**

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REGD OFFICE: 401, Manish Chamber, Sonawala Cross Lane, Goregaon (E), MUMBAI - 400 063

### TECHNICAL SPECIFICATIONS:


1. pH Range : 0 - 12
2. Operating Temperature : -5 to 80°C
3. Slope : 59 ±3 mV at 25°C
4. Zero Point : pH 7
5. Asymmetry Potential : 0±25 mV
6. No. of Junctions : Single
7. Glass Membrane Impedance : <300 MΩ at 25°C
8. Membrane Glass : Blue
9. Temp. Compensation : Pt100/ Pt1000/ 30K NTC
10. Reference Electrolyte : 3M KCl
11. Diaphragm, Nos. : Ground Glass, One
12. Reference System : SREF+
13. pH Storage Solution : Saturated KCl/ TOSHCON storage solution
14. Shape of Membrane : Big Spherical
15. Diameter : 12 mm
16. Shaft Length (A) : 120 mm
17. Shaft Material : Glass
18. O Ring : EPDM (in case of S8/ S7/ VP connectors etc.)
19. 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.
20. Solution Ground : Optional
21. Suitability : Suitable/ compatible with mostly all make instruments.



Hole for refilling

**ORDERING CODE**

**TPURE - X - X - X - X - X - X**



Cable Thread  
S8 Connector  
(Single Pole)

PG 13.5  
Screw  
Thread

Washer

O Ring

Hole for  
refilling

Cap/ Connector:	
Cap	-
Threaded Cap	- TC
PG 13.5	- S8
S7	- S7
Variopin	- V

Shaft Length (A):	
120 mm	-
225 mm	- 225

Refilling:	
Hole	-
U Shape Side Arm	- U

Cable Length for Cap Electrode:	
1 Mtr.	-
3 Mtrs.	- 3
5 Mtrs.	- 5
9 Mtrs.	- 9
13 Mtrs.	- 13

Solution Ground:	
Without Liquid	-
Ground	-
Liquid Ground	- L

Temp. Compensator:	
Without	-
Pt100	- T
Pt1000	- 1T
30K NTC	- 3T

### OTHER INDUSTRY:

Pharma, Petrochemical, Swimming Pools, Aquarium, Electroplating, Food, Chemical, Fertilizer, Dairy, Oil, Drinking Water, Ground Water, Waste Water

### OTHER APPLICATIONS:

Extreme pH (Acidic), Extreme pH (Alkali), Narrow Vessel/ Semi Micro, Low Ionic/ Ultrapure, Oil/ Water Emulsion, HF, Low Temp. (-30°C), High Temp. (135°C), Steam Sterilisable

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