



**SENSABLACK PURE**

## pH ELECTRODES FOR HIGH PERFORMANCE, HIGH TEMP. APPLICATION



**Membrane Glass:** A wide selection of different pH-sensitive glass membranes (Blue, Green, Brown 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 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 or Ag/ Ag Wire (in Double Junction), to prevent & delay the reference fouling process.

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

**pH & Redox:** The TPRO family of pH and Redox electrodes are ideal for any industry for low or high pH, HF application or high temp. applications demanding high performance from an electrode.

Manufactured by:  
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TECHNICAL SPECIFICATIONS:	
pH Range	0 - 14
Operating Temperature	Up to 100°C (Steam up to 140°C)
Slope	59 ±3 mV at 25°C
Zero Point	pH 7
Asymmetry Potential	0+25 mV
No. of Junctions	Single/ Double
Glass Membrane Impedance	<300 MΩ at 25°C
Membrane Glass	Blue/ Green
Temp. Compensation	Pt100/ Pt1000/ 30K NTC
Pressure	Up to 6 Bar at 25° C
Reference Electrolyte	HGel+
Diaphragm, Nos.	Ceramic, 1/ 2/ 3
Reference System	SREF+ (Single Junction) or Ag/ Ag Wire (Double Junction)
pH Storage Solution	Saturated KCl/ TOSHCON storage solution
Shape of Membrane	Spherical
Diameter	12 mm
Shaft Length (A)	120/ 225/ 325/ 425 mm etc.
Shaft Material	Glass
O Ring	EPDM (in case of S8/ S7/ VP connectors etc.)
Connector type	Cap with BNC with Low-Noise Coaxial Cable or S8 (PG 13.5) or S7 or Variopin (V)
Suitability	Suitable/ compatible with mostly all make instruments.

### ORDERING CODE

<b>Bulb:</b>		
Green	-	-
Blue	-	B
Brown	-	BR
<b>Sensablack Pure*** X-X-X-X-X-X-X</b>		

<b>Cap/ Connector:</b>		
Cap	-	2 tone
PG 13.5	-	S8
Variopin	-	V
<b>Sensablack Pure*** X-X-X-X-X-X-X</b>		

<b>No. of Junction:</b>		
Single	-	-
Double	-	D
<b>Sensablack Pure*** X-X-X-X-X-X-X</b>		

<b>Ceramic:</b>		
One	-	-
Two	-	2
Three	-	3
<b>Sensablack Pure*** X-X-X-X-X-X-X</b>		

<b>Solution Ground:</b>		
Without Liquid Ground	-	-
Liquid Ground	-	L
<b>Sensablack Pure*** X-X-X-X-X-X-X</b>		

<b>Shaft Length (A):</b>		
120mm	-	-
225mm	-	225
325mm	-	325
425mm	-	425
<b>Sensablack Pure*** X-X-X-X-X-X-X</b>		

<b>Cable Length for Cap Electrode:</b>		
1 Mtr.	-	-
3 Mtrs.	-	3
5 Mtrs.	-	5
<b>Sensablack Pure*** X-X-X-X-X-X-X</b>		

<b>Temp. Compensator:</b>		
Without	-	-
Pt100	-	T
Pt1000	-	1T
<b>Sensablack Pure*** X-X-X-X-X-X-X</b>		