

SenTix® pH electrodes for every application

SenTix® quality electrodes by WTW – convenient measurement and precision.

- Low-resistance glass membranes guarantee stable measuring signals even at low temperatures.
- Silver ion-free reference electrolyte, together with the proven platinum wire diaphragm, prevent measurement problems by precipitating silver compounds.
- Functional slide for accessing the refill opening for electrodes with liquid electrolyte.
- Typical connections: Waterproof DIN connector, BNC connector, fixed cable (1 or 3 m, 3 ft. or 9 ft.) or connector head (S7 or SMEK).

IDS pH/ORP electrodes, see page 14



Low-maintenance pH electrodes with gel electrolyte

Ideal for portable measurements, as well as for routine measurements in-the-laboratory. With or without built-in temperature probe all electrodes have robust plastic shafts and a low-maintenance gel reference system.

New: The SenTix® F with temperature-stable iodine/iodide system, specifically for measurements at changing temperature conditions.



SenTix® pH Electrodes									
Model	SenTix® 20 103 630	SenTix® 21 103 631	SenTix® 21-3 103 632	SenTix® 22 103 633	SenTix® 41 103 635	SenTix® 41-3 103 636	SenTix® 42 103 637	SenTix® F 103 676	SenTix® F-3 103 677
Measuring range pH	0 ...14 pH				0 ...14 pH			0 ... 14 pH	
Operating range °C (°F)	0 ... 80 °C (32 ... 176 °F)				0 ... 80 °C (32 ... 176 °F)			0 ... 80 °C (32 ... 176 °F)	
Reference electrolyte	Gel				Gel			Gel	
Membrane shape	Cylindrical				Cylindrical			Cylindrical	
Membrane resistance at 25 °C (77 °F)	<1 GΩ				<1 GΩ			<1 GΩ	
Diaphragm	Fiber				Fiber			Fiber	
Shaft material	Plastic				Plastic			Plastic	
Shaft length**	120 mm (4.72 in.)				120 mm (4.72 in.)			120 mm (4.72 in.)	
Shaft Ø***	12 mm (0.47 in.)				12 mm (0.47 in.)			12 mm (0.47 in.)	
Temperature probe	—				Built-in NTC (30 KΩ)			Built-in NTC (30 KΩ)	
Connection	①	②	②	②	②	②	②	②	②
Electrode cable	③*	④	⑤	④	④	⑤	④	④	⑤
Electrode plug	⑥/⑦	⑥	⑥	⑦	⑥+⑧	⑥+⑧	⑦+⑧	⑥+⑧	⑥+⑧

* not included

** ±2 mm/±0.08 in.

*** ±0.5 mm/±0.02 in.

①: Plug head, ②: Fixed cable, ③: AS/DIN, AS/DIN-3 or AS/BNC, ④: Cable length 1 m (3 ft),

⑤: Cable length 3 m (9 ft), ⑥: DIN plug, ⑦: BNC plug, ⑧: Banana plug

Fast and precise – pH electrodes with liquid electrolyte



For demanding measurements in-the-laboratory. Sentix® electrodes with liquid electrolyte, an easy-to-clean glass shaft and platinum diaphragm can be used even for complicated samples. For those who need an electrode with liquid electrolyte for a portable measurement: The Sentix® 51/52 with plastic shaft, built-in temperature probe and ceramic diaphragm is suited for nearly any measuring task.



Sentix® pH Electrodes

Model	Sentix® 51 103 651	Sentix® 52 103 652	Sentix® 60 103 639	Sentix® 61 103 640	Sentix® 62 103 641	Sentix® 81 103 642	Sentix® 82 103 643	Sentix® 91 103 695	Sentix® 92 103 696	Sentix® L 103 655
Measuring range pH	0 ... 14 pH		0 ... 14 pH			0 ... 14 pH		0 ... 14 pH		0 ... 14 pH
Operating range °C (°F)	0 ... 80 °C (32...176 °F)		0 ... 100 °C (32...212 °F)			0 ... 100 °C (32...212 °F)		0 ... 100 °C (32...212 °F)		10 ... 100 °C (50 ... 212 °F)
Reference electrolyte	KCl 3 mol/l, Ag ⁺ -free		KCl 3 mol/l, Ag ⁺ -free			KCl 3 mol/l, Ag ⁺ -free		KCl 3 mol/l, Ag ⁺ -free		KCl 3 mol/l
Membrane shape	Cylindrical		Conical			Conical		Spherical		Spherical
Membrane resistance at 25 °C (77 °F)	<1 GΩ		<600 MΩ			<600 MΩ		<600 MΩ		< 600 MΩ
Diaphragm	Ceramics		Platinum			Platinum		Platinum		Platinum
Shaft material	Plastic		Glass			Glass		Glass		Glass
Shaft length**	120 mm (4.72 in.)		120 mm (4.72 in.)			120 mm (4.72 in.)		170 mm (6.69 in.)		425 mm (16.73 in.)
Shaft Ø***	12 mm (0.47 in.)		12 mm (0.47 in.)			12 mm (0.47 in.)		12 mm (0.47 in.)		12 mm (0.47 in.)
Temperature probe	Built-in NTC (30 KΩ)		-			Built-in NTC (30 KΩ)		Built-in NTC (30 KΩ)		Built-in NTC (30 KΩ)
Connection	②	②	①	②	②	②	②	②	②	①
Electrode cable	④	④	③*	④	④	④	④	④	④	⑨*
Electrode plug	⑥+⑧	⑦+⑧	⑥/⑦	⑥	⑦	⑥+⑧	⑦+⑧	⑥+⑧	⑦+⑧	⑥+⑧/⑦+⑧

* not included

** ±2 mm/±0.08 in.

*** ±0.5 mm/±0.02 in.

①: Plug head, ②: Fixed cable, ③: AS/DIN, AS/DIN-3 or AS/BNC, ④: Cable length 1 m (3 ft), ⑥: DIN plug, ⑦: BNC plug, ⑧: Banana plug, ⑨: AS S/D1 or AS S/D3 or AS S/B1 or AS S/B3, ⑩: AS S/R