



# pH electrodes/ORP electrodes for industrial use



- · High durability PPS (polyphenylene sulfide) body
- · Adopts a newly developed membrane against hydrofluoric acid
- The replaceable tip (glass <--> liquid junction) improves maintenance cost.
- · Lowered running costs







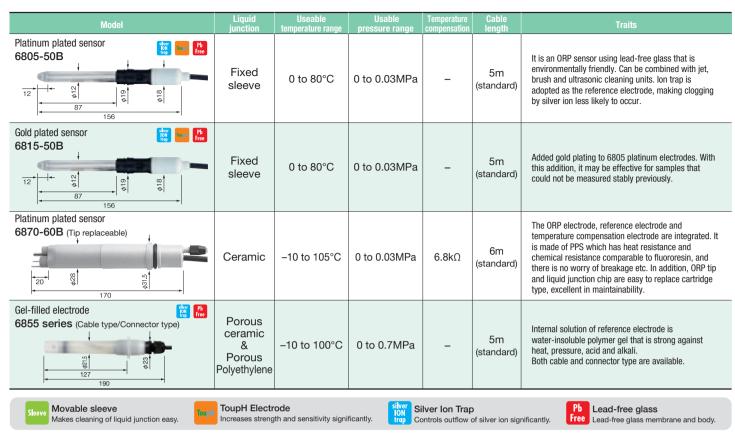
Model	Liquid junction	Useable temperature range	Usable pressure range	Temperature compensation	Cable length	Traits
Dome type pH electrode 6108-50B (Integrated combination)  12  87  166.5	Multi zirconia ceramic	–10 to 100°C	0 to 0.6MPa	1kΩ	5m (standard)	Rugged construction and easy-to-clean dome shape. Double ceramic liquid junction helps prevent soiling. Suitable for high-temperature (100°C) and high-pressure (0.6 MPa) processes. Good acid resistance. Can be combined with jet, brush and ultrasonic cleaning units.
Sleeve type pH electrode 4 Present the free 6109-50B (Integrated combination)	Fixed sleeve	–10 to 80°C	0 to 0.03MPa (内部液加圧にて)	1kΩ	5m (standard)	New response membrane provides even greater toughness. Uses easy-to-attach fixed sleeve liquid junction.
pH electrode 6110-50B (Integrated combination)	Porous ceramic	−10 to 60°C	0 to 0.03MPa	1kΩ	5m (standard)	It is an pH sensor using lead-free glass that is environmentally friendly. Ion trap is adopted as the reference electrode, making clogging by silver ion less likely to occur.
Hydrofluoric acid-resistant pH electrode 6151-50B (Integrated combination)	Multi alimina ceramic	-10 to 60°C	0 to 0.2MPa	1kΩ	5m (standard)	Uses newly developed response membrane for alkali-resistant applications Highly chemical resistant PSU (polysufone) body. Provides service for one month in 1000 ppm hydrofluoric acid at 25°C with pH 3-4 (general guide) Double ceramic liquid junction.
High alkali-resistant pH electrode 6152-50B (Integrated combination)	Multi zirconia ceramic	−10 to 60°C	0 to 0.2MPa	1kΩ	5m (standard)	Uses newly developed response membrane for alkali-resistant applications. Highly chemical resistant PSU (polysufone) body. Provides service for three months in 0.1N caustic soda at 60°C (general guide) Double ceramic liquid junction. Reduces alkali errors.
Gel-filled electrode 6155 series (Cable type/Connector type)	Porous ceramic & Porous Polyethylene	−10 to 100°C	0 to 0.7MPa	Pt 1000 RTD 1000Ω (at 0°C)	5m (standard)	Measurement of low conductivity samples is possible from 10 µS/cm. Internal solution of reference electrode is water-insoluble polymer gel that is strong against heat, pressure, acid and alkali. Both cable and connector type are available.
High alkali-resistant pH electrode 6171-50B (Tip replaceable)	Alimina ceramic	-10 to 60°C	0 to 0.03MPa	1kΩ	5m (standard)	Uses newly developed response membrane for alkali-resistant applications Highly chemical resistant PSU (polysufone) body. Provides service for one month in 1000 ppm hydrofluoric acid at 25°C with pH 3-4 (general guide) Changeable glass tip and liquid junction tip improve ease of maintenance and reduces running costs.
High alkali-resistant pH electrode 6172-50B (Tip replaceable)	Zirconia ceramic	–10 to 60°C	0 to 0.03MPa	1kΩ	5m (standard)	Uses newly developed response membrane for alkali-resistant applications. Highly chemical resistant PSU (polysufone) body. Provides service for three months in 0.1N caustic soda at 60°C (general guide) Changeable glass tip and liquid junction tip improves ease of maintenance and reduces running costs.
pH electrode 6174-50B (Tip replaceable)	Zirconia ceramic	–10 to 100°C	0 to 0.03MPa	1kΩ	5m (standard)	It is made of PPS which has heat resistance and chemical resistance comparable to fluororesin, and there is no worry of breakage etc. In addition, pH tip and liquid junction tip are easy to replace cartridge type, excellent in maintainability.
EL sensor for pure water For HP-8A  EL-6121-60B	Porous plastic	0 to 50°C	Atmospheric release	-	0.3m (standard)	It is a pH sensor dedicated to pH meter "HP-8A" for pure water. PPS is used for the body, and high durability is realized. Also, since the pH tip is a connector type, it can be replaced with a single touch.

- If you are using one of the samples below, please consult our sales department.

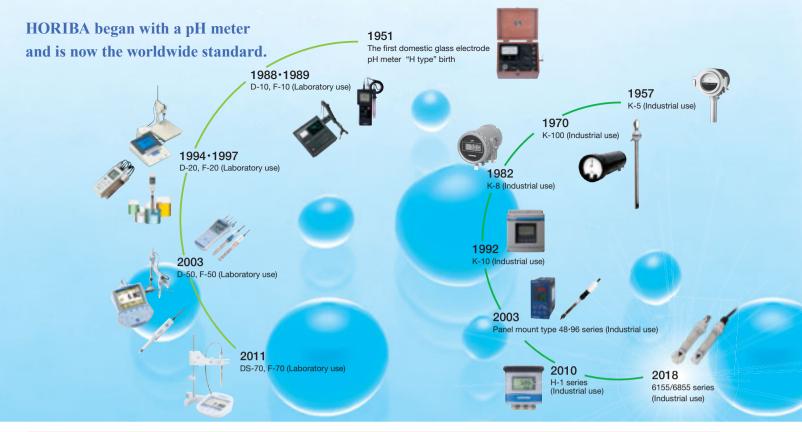
   A strong oxidizing solution such as aqua regia, chromic acid, hypochlorous acid, and perchloric acid.

   When containing corrosive gas such as ammonia, chlorine, and hydrogen sulfide.

# OPR electrode



E	H electrode/ORP electrode Electrode combination table	Field type H-1 series	Panel mount type 48/96 series	HP-8 (for pure water)
Combination table of pH meter and electrode	Dome-shaped pH electrode 6108-50B (Integrated combination)			_
	Fixed sleeve electrode 6109-50B (Integrated combination)			_
	pH electrode 6110-50B (Integrated combination)			_
	Hydrofluoric-acid proof pH electrode 6151-50B (Integrated combination)			_
	High alkali proof pH electrode 6152-50B (Integrated combination)			_
	Gel-filled electrode 6155 series (Cable type/Connector type)			_
	Hydrofluoric-acid proof pH electrode 6171-50B (Combination with replaceable tip)			_
	High alkali proof pH electrode 6172-50B (Combination with replaceable tip)			_
	Replaceable tip electrode 6174-50B (Combination with replaceable tip)			_
	EL sensor for pure water (For HP-8A) EL-6121-60B	_	_	
Combination table of ORP meter and electrode	ORP platinum electrode 6805-50B			_
	ORP platinum + Gold plate electrode 6815-50B			_
	Platinum plated sensor 6870-60B (Tip replaceable)			_
	Gel-filled electrode 6855 series (Cable type/Connector type)			_





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