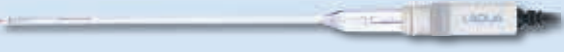


pH Combination Electrodes

HORIBA pH Combination electrodes manufactured with 1 meter cable terminating in BNC connector allow these electrodes to be used with any pH meter¹. Enjoy the full spectrum of features and benefits of these electrodes on your existing pH meter¹. (For applications where temperature measurement and compensation is required, please refer to the 3-in-1 pH electrodes).

¹ pH meters must have BNC connector

Model	pH Range	Operating Temperature Range (°C)	Liquid Junction	Application
ToupH Standard Electrode 9415-10C General laboratory application  Overall length: 198 mm Diameter of probe: 12 mm Connector: BNC 3200611623	0-14	0-100	Ceramic	The electrode offers quick stability and drift reduction. - Constructed with responsive glass that is 10X stronger than JIS standards - The one-touch refilling port slider allows one-hand operation - Waterproof, Pb-free glass Perfect for preparing pH buffers and other aqueous test solutions.
Standard Plastic Electrode 9425-10C General field application  Overall length: 150 mm Diameter of probe: 16 mm Connector: BNC 3200611625	0-14	0-100	Ceramic	The electrode has plastic body, which is ideal for field measurement. - Can be submerged up to 1m depth and 30mins (with refilling port closed) - Waterproof, Pb-free glass Recommended for field use. For measurement of tap water and drinking water.
ToupH Sleeve Electrode 9481-10C High viscosity application  Overall length: 203 mm Diameter of probe: 12 mm Connector: BNC 3200611631	0-14	0-60	Movable sleeve	The electrode gives stable readings in highly viscous samples. - The liquid junction is designed with a movable sleeve that can be cleaned easily and prevents clogging - Waterproof, Pb-free glass For measurement of highly viscous samples and samples containing non-aqueous solvents (e.g., cosmetics, paints).
ToupH Micro Electrode 9418-10C Precious trace amount sample  Overall length: 185 mm Diameter of probe: 3 mm Connector: BNC 3200611627	0-14	0-60	Ceramic	The electrode can measure samples as small as 50µL. - Compatible with extremely small containers (e.g., micro tubes) - Temperature sensor is placed next to the bulb for quick response - Waterproof Suitable for low-volume samples and wide range of aqueous solutions.
ToupH Long Electrode 9480-10C For large containers and long test tubes  Overall length: 283 mm Diameter of probe: 8 mm Connector: BNC 3200611628	0-14	0-100	Ceramic	The long, thin body of the electrode is perfect for large containers and test tubes. 283mm length, 8mm diameter - Constructed with responsive glass that is 10X stronger than JIS standards - Waterproof, Pb-free glass For measuring samples (e.g., microbial culture fluids) in test tubes and tall beakers.
Long Electrode 6069-10C For very slender test tubes  Overall length: 291 mm Diameter of probe: 3.15 mm Connector: BNC 3014081107	0-14	0-60	Ceramic	The long, thin body of the electrode is perfect for very slender test tubes. 291mm length, 3mm diameter - Waterproof For measuring samples in slender tubes (e.g., NMR test tube).

Model	pH Range	Operating Temperature Range (°C)	Liquid Junction	Application
Flat Electrode 6261-10C  Overall length: 150 mm Diameter of probe: 12 mm Connector: BNC	0-12	0-50	Sleeve	The sensor is located on the flat surface of the tip. - Measurement can be made from minute amount of moisture on solid sample surface - Pure water can be applied for samples with no moisture - Waterproof Perfect for measuring samples in shallow containers (e.g., petri dishes) and gelatinous materials (e.g., nutrient agar). For surface measurement of meat, paper, skin, and cloth.

3-in-1 pH Glass Body Electrodes²

HORIBA pH Combination electrodes with an integrated thermistor offer higher accuracy as these electrodes measure temperature concurrently with pH. The pH meter is able to continuously monitor and compensate for temperature effects automatically.

² Only compatible with HORIBA pH meters

Model	pH Range	Operating Temperature Range (°C)	Liquid Junction	Application
ToupH Standard Electrode 9615S-10D General laboratory application  Overall length: 198 mm Diameter of probe: 12 mm Connectors: BNC & phono jack	0-14	0-100	Ceramic	The electrode offers quick stability and drift reduction. - Constructed with responsive glass that is 10x stronger than JIS standards - The one-touch refilling port slider allows one-hand operation - Waterproof, Pb-free glass Perfect for preparing pH buffers and other aqueous test solutions.
ToupH Sleeve Electrode 9681S-10D High viscosity application  Overall length: 203 mm Diameter of probe: 12 mm Connectors: BNC & phono jack	0-14	0-60	Movable sleeve	The electrode gives stable readings in highly viscous samples. - The liquid junction is designed with a movable sleeve that can be cleaned easily and prevents clogging - Waterproof, Pb-free glass For measurement of highly viscous samples and samples containing non-aqueous solvents (e.g. cosmetics, paints).
ToupH Micro Electrode 9618S-10D Precious trace amount sample  Overall length: 185 mm Diameter of probe: 3 mm Connectors: BNC & phono jack	0-14	0-60	Ceramic	The electrode can measure samples as small as 50µL. - Compatible with extremely small containers (e.g. micro tubes) - Temperature sensor is placed next to the bulb for quick response - Waterproof Suitable for low-volume samples and a wide range of aqueous solutions.
ToupH Long Electrode 9680S-10D For large containers and long test tubes  Overall length: 283 mm Diameter of probe: 8 mm Connectors: BNC & phono jack	0-14	0-100	Ceramic	The long, thin body of the electrode is perfect for large containers and test tubes. 283mm length, 8mm diameter - Constructed with responsive glass that is 10x stronger than JIS standards - Waterproof, Pb-free glass For measuring samples (e.g. microbial culture fluids) in test tubes and tall beakers.
Needle Electrode 6252-10D For food application  Overall length: 150 mm Diameter of probe: 12 mm Connectors: BNC & phono jack	0-12	0-60	Ceramic	Needle electrode allows measurement of food samples and aqueous solutions.
Low-Conductivity Electrode 6377-10D For pure water & non-aqueous solvents  Overall length: 150 mm Diameter of probe: 12 mm Connectors: BNC & phono jack	0-14	0-60	Movable sleeve	Uses a glass membrane that is highly sensitive to low-conductivity water and non-aqueous solvents.

Model	pH Range	Operating Temperature Range (°C)	Liquid Junction	Application
Standard Sleeve Electrode 6367-10D  Overall length: 150 mm Diameter of probe: 12 mm Connectors: BNC & phono jack 3014079136	0-14	0-60	Sleeve	Uses a sleeve at the liquid junction for improved stability and repeatability. For measuring pH at high accuracy.

3-in-1 pH Plastic Body Electrodes²

² Only compatible with HORIBA pH meters

Model	pH Range	Operating Temperature Range (°C)	Liquid Junction	Applications
Gel-filled pH Electrode 9651-10D For Field  Overall length: 150 mm Diameter of probe: 16 mm Connectors: BNC & phono jack 3200642020	0-14	0-80	Porous sintered polyethylene	The plastic body of the electrode is filled with gel electrolyte. Less maintenance is needed as refilling is not required. - Can be submerged up to 1m depth of water for 30mins. - Waterproof, Pb-free glass Recommended for field use.
Gel-filled pH Electrode 9652-10D; 9652-20D For Field  Overall length: 150 mm Diameter of probe: 16 mm Connectors: BNC & phono jack 3200786359; 3200786361	0-14	0-80	Porous sintered polyethylene	The plastic body of the electrode is filled with gel electrolyte. Less maintenance is needed as refilling is not required. - Can be submerged up to 1m depth of water for 30mins. - Waterproof, Pb-free glass Recommended for field use.
Standard Plastic Electrode 9625-10D; 9625-20D; 9625-30D For Field  Overall length: 150 mm Diameter of probe: 16 mm Connectors: BNC & phono jack 3200360505; 3200393025; 3200393026	0-14	0-100	Ceramic	The electrode has a plastic body which is ideal for field measurement. - Can be submerged up to 1m depth of water for 30mins. (with refilling port closed) - Waterproof, Pb-free glass Recommended for field use. For measurement of tap water and drinking water.
Hydrofluoric Acid Resistant Electrode 9631-10D  Overall length: 155 mm Diameter of probe: 16 mm Connectors: BNC & phono jack 3200524119	2-12	0-60	Ceramic	The electrode can measure 1% hydrofluoric acid solution (at 25°C, immersed at 1min.) for about 1000 times. - Rolled glass design for long-term reliable measurement and easy maintenance - Compliant with Japan's Measurement Act Certification - Waterproof, Pb-free glass Suitable for drain water measurement after etching process.
Strong Alkali Resistant Electrode 9632-10D  Overall length: 150 mm Diameter of probe: 16 mm Connectors: BNC & phono jack 3200524120	0-14	0-100	Ceramic	The alkali-resistant glass membrane has higher resistance and longer stability (about 5X in 0.1mol/L sodium at 60°C, pH 13) than conventional electrodes. Waterproof, Pb-free glass Suitable for strong alkali samples such as plating solutions.
Standard Plastic Electrode 9630-10D For tap water  Overall length: 150 mm Diameter of probe: 16 mm Connectors: BNC & phono jack 3200528726	0-14	0-100	Ceramic	The electrode can measure samples with low conductivity or buffering capacity. - Made of high purity multicomponent lithium series glass - Waterproof, Pb-free glass Suitable for tap water measurement and quality control in water purification plant. Recommended to use with cleaning solution 230.