



pH⁺ Series

General Purpose Combination pH Electrode

- pH Range Of 1 To 13
- Durable Epoxy Housing
- Operating Temperature Up To 80 °C
- Fast Response
- Extra Stable Reference System
- Pressure Rating Of 3 Bar
- Extremely Low Temperature Hysteresis
- Single Or Double Junction
- Extended Storage Life



FE72521 - Single Junction
FE72522 - Double Junction

The General Purpose pHion pH electrodes, FE72521 and FE72522, incorporate several features which ensure accurate pH measurements as well as durability. Housed in clear epoxy body, these electrodes offer a high level of chemical resistance and are less brittle than glass electrodes.

Reference Element

Silver, plated with Silver Chloride is used as the reference element. An additional AgCl reservoir maintains the stability of the reference element at elevated temperatures. Temperature tolerance of reference wire is from -5°C to 100°C.

Low Temperature Hysteresis

The reference system responds exceptionally, even under varying temperature conditions. The reference system has a very low temperature hysteresis (typically 2-3 mV) resulting in unprecedented accuracy when measuring samples.

Reference Junction

Special durable Glass Fiber junction allows the reference electrolyte to diffuse evenly and at a constant rate, thus achieving quick and stable reference potentials. The Glass Fiber also minimizes the rate of fouling, to extend the useful life of the electrode.

Reference Electrolyte

Unlike conventional electrodes, which use cellulose-based gels, the Eutech pHion Series utilizes a Polymer Gel which is non-degradable and resistant to bacterial and fungal attack. The effective operating temperature of the electrode is also higher than other conventional electrodes.

Stable Reference Potential

The combination of the unique design of the reference element, junction and electrolyte ensures that the reference potential is stable and constant. pH measurements are now more accurate and reliable than before.

Pressure Tolerance

Back-pressure of samples into the reference is prevented as a result of the Polymer Gel system. The pressure tolerance is as high as 3 bar.

Optional Double Junction (with FE72522)

For sample media containing sulphides, the double-junction FE72522 is the solution. The reference element is isolated within a second chamber, minimizing contamination.

Chemical Durability Of Wetted Materials

The materials used in the pHion electrodes consist of epoxy - housing; glass - measuring system; and silicone rubber - to hold the glass fibre junction. Thus, the chemical durability is superior to conventional electrodes.

Specifications:

pH Range	1 to 13 pH
Operating Temperature	0 to 80 °C
Electrode Type	Combination
Reference Element	Silver/Silver Chloride
Reference Electrolyte	Saturated KCl in Solid Polymer Gel
Reference Junction	Glass Fiber
Standard Termination	1 or 5 meter pH-measuring cable with BNC
Length/Diameter/Weight	110mm/12mm/50g ; 110g (boxed)

Ordering Information:

EC-FE72521-01B	Single junction with 1m cable
EC-FE72521-05B	Single junction with 5m cable
EC-FE72522-01B	Double junction with 1m cable
EC-FE72522-05B	Double junction with 5m cable

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