

COMBINATION pH ELECTRODE EPS-2

The **EPS-2** combination glass electrode is designed for pH measurements in liquids in range 0 to 14 pH. **Working temperature: up to 120°C.**

The **EPS-2** electrode is distinguished by short stabilisation period and linearity at the ends of measurement range.

The gel electrolyte is not refillable, but sufficient for all the exploitation period and facilitates working.

The ceramic electrolytical diaphragm is placed at the bottom of the electrode and it enables the measured solution and electrolyte in the reference electrode to contact.

The electrode is equipped with a glass, hemispheric membrane.

The BNC-50 connector enables cooperation with majority of available pH meters.

The reference half cell is separated by an internal electrolytical diaphragm, what creates the ionic barrier. It prevents the silver ions from diffusion to the reference half cell, what in turn limits the chance of clogging of the ceramic diaphragm and interference of the sulfide and cyanide ions from the measured solution. It also limits the interference of the reducing agents such as amines, buffers containing TRIS, sulfites, etc. To keep the electrode permanently activated, it is equipped with a bottle filled with saturated KCl put on its end, which should be taken off before the measurement. Such solution prolongs the electrode's life time. A special sealing ring protects from the electrolyte leakage from the bottle. The ring is tightened by screwing the cap.

High quality for affordable price.

TECHNICAL DATA

Range	0 ÷ 14 pH
Working temperature range	0 ÷ 120 °C (140 °C in steam)
Zero point	7.0 ± 0.4 pH
Diaphragm type / membrane	ceramic / glass
Electrolyte	saturated KCl gel
Impedance	< 300 MΩ (25 °C)
Body diameter	12 mm ± 0,5 mm
Length without cap	140 mm ± 5 mm
Pressure	6 bar (25 °C)
Minimal immersion level	30 mm
Maximal immersion level	105 mm
Body material	glass
Cable length	about 1 m
Connector	BNC-50



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