COMBINATION pH ELECTRODE EPS-1

The **EPS-1** combination glass electrode is designed for pH measurements in clear liquids or liquids with low sediment content.
The electrode is distinguished by low impedance, short stabilisation period
and good linearity at the ends of measuring range.
The electrolyte in the reference electrode is saturated KCl solution, which is refillable.
The electrode is equipped with a round glass membrane.
The ceramic electrolytical diaphragma (junction) is placed above the membrane.
The BNC-50 connector enables cooperation with majority of available pH meters.

The reference half cell is separated by an internal electrolytical diaphragma, 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 diaphragma 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 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 bottle cap.

High quality at an affordable price.

TECHNICAL DATA

Range	0 ÷14 pH
Working temperature range	0 ÷ 70 ˚C
Zero point	7.0 ± 0.3
Diaphragma type / membrane	ceramic / glass, round
Electrolyte	saturated KCl
Impedance	< 120 MΩ (25 ºC)
Body diameter	12.0 mm ± 0.5 mm
Length without cap	140 mm ± 5 mm
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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