

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 3 M KCl solution, which is refillable.

The electrode is equipped with a round glass membrane.

The ceramic electrolytical diaphragm (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 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 sulphide 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
Diaphragm type / membrane	ceramic / glass, round
Electrolyte	3 M KCl
Impedance	< 120 MΩ (25 °C)
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



ELMEIRON® Sp. j.

41-814 Zabrze, Witosza 10 POLAND

tel. +48 32 2738106

www.elmetron.pl e-mail: info@elmetron.com.pl