

COMBINATION pH ELECTRODES EPX-4 / EPX-4U

The combination glass electrodes **EPX-4** and **EPX-4U** are used for pH measurements in co-operation with pH meters equipped with BNC-50 connector, they may also be used for continuous measurements in flow in pipelines with use of flow heads available in our offer.

The measuring membrane is a round glass bulb made of glass chosen depending on the intended use.

The **EPX-4** model is designed for measurements in liquids containing strong acids or alkalis (apart from hydrofluoric acid or concentrated NaOH and KOH).

The **EPX-4U** model may be used for measurements in deionised, pure and ultra pure water.

Teflon junction limits penetration of the measured solution into the electrode and enables good contact with the measured sample what results in accurate and stable measurements and limits the penetration of the measured solution into the electrode.

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 saturated KCl put on its end, which should be taken off before the measurement.

The electrolyte is in a gel form and it is not refillable.

The electrodes may work in liquids of temperature up to 90°C.



TECHNICAL DATA

Measuring range	0 ÷ 14 pH
Working temperature range	0 ÷ 90 °C
0 point	7 ± 0.3 pH
Membrane	Glass, bulb
Type of junction	Teflon
Electrolyte	Gel – 3.3 M KCl , Ag / AgCl
Impedance	< 120 MΩ (25 °C)
Body diameter	12.0 mm ± 0.5 mm
Length	155 mm ± 5 mm
Body material	glass
Connector	BNC
Maximal pressure of liquid	3 bar

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