

## COMBINATION pH ELECTRODES EPX-5 / EPX-5t

The combination glass electrodes **EPX-5** and **EPX-5t** 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 electrodes are designed for measurements in liquids with average amount of sediments, for example effluent, not heavily polluted waste water.

The **EPX-5t** electrode has a built in Pt-1000B temperature sensor.

Teflon junction in a form of a ring placed in the lower part of electrode close to the membrane 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 100°C and pressure up to 6 bar (in 25°C).



### TECHNICAL DATA

<b>Measuring range</b>	0 ÷ 14 pH
<b>Working temperature range</b>	0 ÷ 100 °C
<b>0 point</b>	7 ± 0.3 pH
<b>Membrane</b>	Glass, bulb
<b>Type of junction</b>	Teflon
<b>Type of internal junction</b>	Ceramic
<b>Electrolyte</b>	Gel – KCl
<b>Body diameter</b>	12.0 mm ± 0.5 mm
<b>Body Length</b>	120 mm ± 5 mm
<b>Body material</b>	glass
<b>Connector</b>	BNC (optionally DIN) RCA (chinch) for temperature
<b>Maximal pressure of liquid</b>	6 bar (at 25°C)