

## pH COMBINATION ELECTRODE EPP-HF

The combination electrode **EPP-HF** is designed for pH measurements in water solutions containing hydro-fluoride acid (HF). **This electrode may be used for measurements of liquids with the HF acid concentration not higher than 0.5 M/l (10 g/l).**

A standard pH electrodes made of glass are not intended for the measurements in such liquids as the HF acid dilutes the glass. The glass used in the **EPP-HF** pH electrode enables short lasting measurements under condition of not exceeding the time limits of immersion of the electrode in the measured solutions. The higher is the HF acid concentration (not exceeding the 0.5M/l), the immersion time should be shorter. The electrodes can't be immersed for a time longer then 2 minutes.

The electrode glass withstands about 1000 measurements of liquids up to 25 °C with a measurement time of about 1 minute. The electrode is not refillable, what makes its usage easier. It is filled with a gel electrolyte what prolongs its lifetime. Plastic body lowers the risk of braking.

The measuring membrane is made of flat glass and the junction, ring shaped, is made of Teflon.

The continuous activity of the membrane is ensured by a plastic container filled with a 3 M KCl solution. It is put on the electrodes and taken off before the measurements. This prolongs the electrode lifetime. To keep the container sealed it is equipped with a seal which is tightened by screwing on the nut.

The price is very affordable in comparison with similar electrodes offered by other companies.



### TECHNICAL DATA

Measuring range	0 ÷ 11 pH
Temperature range	0 ÷ 50 °C
Zero point	7.0 ±0.4 pH (in 20 °C)
Junction type / membrane	teflon / glass - flat
Body diameter	12 mm ±0.5 mm
Length without cable cap	120 mm ±5 mm
Body material	poly-carbonate
Cable length	about. 1 m.
Connector	BNC-50