

## pH MEASURING HEAD GPX-105S FOR INSTRUMENTS OF 100 SERIES

The **GPX-105S** measuring head is designed for cooperation with the pH meters of 100 series. It ensures stable and accurate measurements and long time trouble free operation and it is characterised by a fast result stabilisation. Enables measurements in various samples of both pure and contaminated liquids and semi-solids. This electrode enables measurements in very wide range of samples.

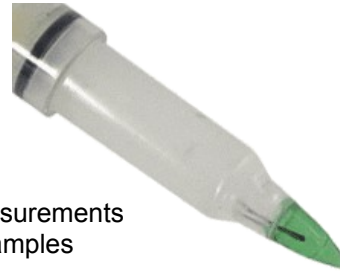
**WATER, WASTEWATER, CONTAMINATED SAMPLES, COSMETICS, DETERGENTS, ORGANIC MATERIALS, PROTEINS, LUBRICANTS, OILS, WINE, MEAT, CHEESE..... ALL THIS MAY BE MEASURED WITH ONE ELECTRODE!**

Unusual construction ("intermediate junction") protects the real junction (diaphragm) of the electrode against clogging, ensures stable measurements in these types of liquids or semi-liquid masses, in which other electrodes quickly stop working.

Glass elements of the electrode are protected by a plastic body. Plastic sleeve which protects the junction is an integral part of the electrode. It is impossible to use the electrode without the sleeve. The sleeve may be exchanged and it's kind depends on the type of the measured sample.



Sleeve for measurements  
in liquid samples



Sleeve for measurements  
in semi solid samples

Machine processing of the glass ensures high precision of matching elements in glass and plastic electrode, which is a must for a proper operation. When properly handled, the electrode's lifetime is longer than the standard electrodes.

The average lifetime is between 2 and 4 years and it depends on the frequency of measurements and type and temperature of the measured solutions.

Periodically, on average every month, the sleeve should be taken off, the old electrolyte gel should be washed out and new one poured in.

The cone shape membrane is hardened what enables direct penetrating measurements for example in a meat or a cheese.

The **GPX-105S** can't be used for distilled, redistilled or deionised water measurements.





## TECHNICAL DATA

Measuring Range	0 ÷ 14 pH
Zero point (pH <sub>E=0</sub> )	7.0 ± 0.4 pH
Resistivity of the membrane (in 20°C)	200 ÷ 500 MΩ
Reference electrode	double junction, Ag/AgCl
Reference solution	3.0 M KCl + AgCl
Body diameter	6.0 / 12.0 ±0.5 mm
Membrane shape	glass, conical
Diameter	12.0 mm
Temperature range	0 ÷ 60 °C, for short period usage 0 ÷ 80 °C
Body length (without cable socket)	120 ± 5 mm
Minimal depth of immersing	20 mm
Maximal depth of immersing	100 mm
Body material	polipropylene
Cable length	about 1 m
Connector	special plug for connecting with the meter