COMBINATION pH ELECTRODE ERH-11S

ERH-11S combination electrode has a specific construction of the electrolytical junction made in a shape of sliding, glass sleeve. The glass sleeve is precisely adjusted to the electrode's body, covers the junction, what protects it against+. Precise construction enables stable outflow of the electrolyte and good contact with measured samples.
ERH-11S is designed for measurements of substances with content of water higher than 5%.

May be used for measurements in:

- samples with low pH ion concentration such as distilled water, boiler feed-water, surface water and groundwater;
- mixtures of organic solvents with water;
- alcohol;
- water emulsions with water content higher than 5% e.g. emulsion of oil in water, paints diluted with water;
- food products such as milk, cream, beer, fruit and vegetable juice
- liquid soap, shampoo, honey;
- solutions with high salt content e.g. sea water, galvanisation baths, photography, tanning.

Round glass membrane responds well to the pH value of the measured solutions.
The side inlet facilitates refilling or exchanging the electrolyte.
The electrode construction limits the influence of the static charge occurring frequently in case of measurements in solutions with low ion concentration.

Technical Data

Measuring Range	0 ÷ 14 pH
Temperature range (for short period usage)	0 ÷ 60 ºC up to 80 ºC
Resistivity of the membrane (in 20ºC)	100 ÷ 200 MΩ in 20 ºC
Resistivity of the diaphragms	< 5 kΩ
Zero point ($pH_{E=0}$)	0 ±30 mV
Reference electrode	Ag/AgCl
Reference solution	3.0 M KCl + AgCl, gel
Body diameter	12.0 ±0.5 mm
Body length (without cable socket)	120 ±5 mm
Minimal depth of immersing	30 mm
Maximal depth of immersing	105 mm
Membrane material	glass
Membrane shape	round bulb
Diaphragme	glass sleeve
Cable length	about 1 m
Connector	BNC-50

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