



Dimensions mm

This micro pH combination electrode features extremely small dimensions and refillable glycerine containing electrolyte. Its special fields of application are measurements in small sample volumes in research and development laboratories, particularly for biology, medical technology, biotechnology and pharmaceuticals.

The small diameter of the pH glass membrane (3 mm) enables reliable measurements in samples down to 60  $\mu\text{l}$  with short response time and high accuracy. Therefore, this electrode can be used favourably for pH measurements in small vessels e.g. for probes of microtiter plates.

The reference system of the micro pH combination electrode contains an Ag/AgCl cartridge with diffusion barrier for silver ions. To reduce the undesirable effect of protein denaturation at the diaphragm in protein-containing samples a special refillable electrolyte containing glycerine has been developed.

The option to use different versions with fixed cables and German DIN plug (DIN 19262) as well as with lab plug head S7-system and plug-cable combinations enables the application of this electrode in combination with nearly all laboratory pH meters.

Accompanying plug-cable combinations:

Koax 3: Connection cable 1 m with lab plug head S7-system plug /  
German DIN plug (DIN 19262)

Koax 5: Connection cable 1 m with lab plug head S7-system plug /BNC plug

## Specifications

<b>Electrode stem</b>	glass, $\varnothing$ 12/3 mm with refill opening
<b>Stem length</b>	120/65 mm
<b>pH range</b>	pH 1 ... 11
<b>Temperature range</b>	0 ... 60 °C
<b>Membrane shape</b>	cylinder
<b>Membrane resistance</b>	ca. 500...700 M $\Omega$ (25 °C)
<b>Reference system</b>	Ag/AgCl cartridge with diffusion barrier
<b>Electrolyte</b>	refillable electrolyte „Glycolyt“
<b>Diaphragm</b>	ceramic frit
<b>Isopotential point</b>	pH = 7 $\pm$ 0.3
<b>Electrical connection</b>	EGA 901 L: lab plug head S7-system EGA 901: fixed cable 1 m with German DIN plug EGA 901/BNC: fixed cable 1 m with BNC plug