

## WATERPROOF POCKETSIZE pH / CONDUCTIVITY / SALINITY METER CPC-105

Enables measurements of pH, redox potential, conductivity, salinity and temperature.

### Characteristic features:

- Pocket-size, easy in use meter with good parameters.
- Designed for field work.
- Fully waterproof (IP-67).
- It is possible to use one head for pH and conductivity measurements or to choose the head according to requirements.



*CPC-105 with GPC-105 head*

### Types of heads:

- for pH measurement in clear water and conductivity measurement - **GCP-105**,
- for pH measurement in water with sediment, sewage, soil, paste and cream - **GPX-105s**,
- for redox potential measurement - **GR-105k**,
- for conductivity measurement – **GC-105**.

### In the pH measurement mode:

- 1 to 3 point calibration.
- Automatic detection of buffer solutions 4,00, 7,00, 9,00 pH optionally: 4,00, 7,00, 10,00 pH.
- Automatic temperature compensation.



*GPX-105s head with sleeve for soil or semi-solid substance*

Choosing the appropriate head type and its maintenance are crucial for long working period. **GPX-105s** head enables measurements in various samples of both pure and contaminated liquids and semi-solids. Its unusual construction ("intermediate junction") protects the real junction (diaphragma) of the electrode against clogging, ensures stable measurements in

these types of liquids or semi-liquid mass, in which other electrodes stop working quickly. When properly handled, the electrode may be efficient for several years.

#### Conductivity measurement function:

- 5 ranges switched automatically.
- Wide measuring range enables measurements in liquids with conductivity up to 100 mS/cm and salinity up to 60 g/l converted to NaCl.
- Conductivity is converted to salinity according to the real dependence, instead of a constant coefficient.
- Reference temperature may be chosen between 25°C and 20°C (e.g. for measurements in honey).
- Automatic temperature compensation in range 0 ÷ 50 °C.
- Constant  $\alpha$  coefficient = 2 % / °C.
- Calibration of the conductivity cell by entering the constant K or in standard solutions.
- Steel electrodes enable measurements in liquid with sediment or oil.

#### Other features:

- Battery-powered (3 x LR44).
- Long-lasting work with one battery set (about 200 hours of continuous working).

#### Technical Data

Function	pH	mV	Conductivity / salinity	Temperature
Range	0.00 14.00 pH	1200 mV	0 100 mS/cm (autorange) / 0 60 g/l NaCl	-5 60 °C
Accuracy ( 1 digit)*	0.02 pH*	1mV *	< 10 mS/cm $\pm$ 1%* < 50 mS/cm $\pm$ 2%* > 50 mS/cm $\pm$ 5 %* / salinity (NaCl) < 25 g/l: $\pm$ 2.5 %* > 25 g/l: $\pm$ 5%*	0.8 °C**, at 25 °C $\pm$ 0.4 °C**
Temp. compensation	-5 60 °C	-	0 50 °C	-
Input impedance	>10 <sub>12</sub>	>10 <sub>12</sub>	-	-
$\alpha$ coefficient	-	-	Constant: 2% / °C	-
Power supply	3x LR44 battery			
Weight	65 g			
Dimensions (mm)	L = 160 = 26, with GPX-105s head: L = 220, = 26			

\* The accuracy of the meter only. \*\* The accuracy with the standard temperature sensor.