

INTELLIGENT PH/mV/EC/TDS/DO METER

DESCRIPTION

The 6005 is a multi-purpose and economical portable meter. A range of probes for measurement of pH, Conductivity, Temperature, Dissolved Oxygen and Total Dissolved Solids are available. Each probe has built-in signal conditioning so scaling or calibrating of the instrument is not required and the correct units of measurement are automatically displayed.

FEATURES

- **Microprocessor circuit** assures maximum possible accuracy
- **Expandable plugs** satisfy your different measurement demands on time on Conductivity, TDS (Total Dissolved Solids), pH measurement, mV, DO (Dissolved Oxygen).
- **Wide application:** water condition, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, school and college
- **Record maximum** and minimum readings
- **Auto shut off** saves battery life
- **Built-in** low battery indicator
- **Auto** (optional probe) / **manual** (built-in) temperature compensation function enables accurate measurement on different solutions
- **Heavy duty** & compact housing case designed
- **PH function** with high input impedance avoids measuring error



6005

GENERAL SPECIFICATION

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Circuit:	Custom one-chip of microprocessor LSI circuit
Display:	Dual function meter's display, 13 mm super large LCD display
Measurement:	pH 0 - 14 pH mV ± 1999 mV CD: 2 ~ 20 mS TDS: 2,000 PPM 20,000 PPM, DO: 0-100% saturation - 0-20.0mg/L
Input impedance:	10^{12} ohms
Temperature compensation for pH/EC measurement:	Manual : 0 - 100 °C Automatic (ATC): With the optional temperature probe (YK-200STC) 0-65°C with temperature compensation factor variable between 0 to 5% /°C
Power off:	Auto power off saves battery life or manual shut off by push button
Data hold:	To hold the reading values on display
Data record:	Record Max. Min. reading values on the display
Over load indication:	"—" on the display
PH electrode:	Any combination pH electrode with BNC connector
Operating temperature:	0°C to 50°C (32°F to 122°F)
Operating humidity:	Less than 80% RH
Sampling time:	Approx. 0.8 second
Power supply:	DC 9V, battery or equivalent Alkaline or heavy duty type
Weight:	250 grams
Size:	195 x 68 x 30 mm

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ELECTRICAL SPECIFICATIONS (23°C ±5°C)

A. pH

Measurement	pH	mV
Range	0 to 14 pH	± 1999 mV
Resolution	0.01 pH	1 mV
Accuracy	± (0.02pH + 2d)	± (0.5% + 2d)

B. Conductivity : CD

Range	Measurement	Resolution	Accuracy
2 mS	0.2 to 2.000 mS / Cm	0.0001 mS / Cm	± (3% Full Scale + 1 d)
20 mS	2 to 20.00 mS / Cm	0.01 mS / Cm	± (3% Full Scale + 1 d)
mS = milli Siemens			

C. Total Dissolved Solids : TDS

Range	Measurement	Resolution	Accuracy
2,000 PPM	132 to 1,320 PPM	1 PPM	± (3% Full Scale + 1 d)
20,000 PPM	1,320 to 13,200 PPM	10 PPM	± (3% Full Scale + 1 d)
PPM = parts per million			

D. Dissolved Oxygen : DO

Range	Resolution	Accuracy
0-100 % saturation	0-20.0mg/L	0.7% in air
Measuring Temperature	50 Degree C	
Compensation	For salt and altitude	
Principle	Polarographic principle with Teflon membrane	

E. Temperature

Measuring range	0°C to 60°C / 32°F to 140°F
Resolution	0.1°C / 0.1°F
Accuracy	0.8°C / 1.5°F

APPLICATIONS

- Regular checks on pH value and conductivity in waterworks in accordance with drinking water stipulations.
- Accurate pH measurement in aqueous solutions such as acids and alkaline solutions.
- Checking of conductivity and pH values of production batches in pharmaceutical industries.
- Checking DO value of water in botanical research work for measuring growth of plants and herbs.
- Analysis and monitoring in cooling water plants.