

LABORATORY MULTIPARAMETER (pH/mV/EC/TDS/DO)



MODEL: TL-706

DESCRIPTION

TOPLAB INDIA'S Microprocessor based Bench Top Multi-Parameter pH/mV/EC/TDS/DO meter is best choice for any laboratory operator/user for advanced pH/mV, EC/TDS, Resistivity, Salinity, Dissolved Oxygen (DO)/°C measurement. Calibration is fast, easy and accurate with auto-calibration using built-in Auto buffer –recognition and automatically calculated and displayed electrode slope value, with dual selective Temperature Compensation of ATC & MTC.

TOPLAB INDIA'S Multi-Parameter pH/mV/EC/TDS/DO Meter is a great tool for any laboratory operator and field user, which is one of the most accurate digital pH/mV/EC/TDS, Resistivity, Salinity, Dissolved Oxygen (DO)/mV/°C meters available in the market. It has the function of ATC (Automatic Temperature Compensation) and MTC (Manual Temperature Compensation), and is suitable to measure the pH or Conductivity /TDS , Resistivity, Salinity, Dissolved Oxygen (DO)/ mV/°C value of solutions and the potential (mV) of electrodes. Furthermore, if it is equipped with an appropriate ORP electrode, it also can be used to measure the ORP concentration of solution. Dissolved Oxygen measuring can measure: electrode current, concentration & saturation of DO.

Advanced Features:

- Advanced Microprocessor technology based design.
- Routine fast pH, mV, Conductivity, TDS, Resistivity, Salinity, DO, Temp. modes.
- High accuracy & High resolution.
- Large LCD Display.
- Automatic and Manual temperature Compensation.
- With 5 point calibration function.
- Meter has the ability of automatic distinguishing standard buffer solution. You can select several PH standard buffer solutions to calibrate electrode. Total 10 different standard solutions are provided.
- User can set own standard solution groups.
- It provides zero Oxygen and full scale calibration.
- 1 point conductivity calibration for the entire range.
- User can search, print and delete measuring data.
- Temperature setting (ATC & MTC).
- Can store 200 sets measuring data in each of PH measuring data, conductive measuring data, TDS measuring data, salinity measuring data and dissolved value including corresponding pH value and ion concentration value 100 sets of each.
- With standard RS232 interface, can connect with PC. (option)
- With electricity cut off protection function which can protect the stored measuring data, calibrating data and set parameter to be saved when meter is turned off or abnormal electricity cut off occurred.

Technical Specification:

1. Measurement range:

- a) pH: -2.00pH to 20.00pH;
- b) ORP (mV): (±1999.9) mV
- c) Conductivity Range: 0.000μS/cm ~200 mS/cm spread into 5 ranges
[0.000~20.00μS/cm, 20.0~200.0 μS/cm, 200~2000 μS/cm,
2.00~20.00mS/cm, 20.0~200mS/cm]
- d) TDS Range: 0.000mg/L~100g/L
- e) Resistivity Range: 5.00 ohm.cm~20M ohm.cm
- f) Salinity Range: (0.0~8.00) %
- g) Dissolved oxygen concentration: (0.0~19.99)mg/L
- h) Dissolved oxygen saturation: (0.0~199.9) %
- i) Temperature: -5°C to 105°C

2. Accuracy:

- a. pH: ±0.01pH
- b. mV: ± 0.1% (FS)
- c. EC: ± 1% (FS)
- d. TDS: ±1% (FS)
- e. Salinity: ±2%
- f. DO: ±0.30 mg/L
- g. DO saturation: ±10.0%
- h. Temp: ± 0.3°C

3. Resolution:

- a) pH: 0.01/ 0.001pH.
- b) mV: 0.1/0.01mV
- c) EC: 0.001 μS/cm
- d) Resistivity: 0.01 Ω.cm
- e) T D S : 0.001 mg/L
- f) Salinity : 0.01
- g) DO: 0.01 mg/L
- h) DO Saturation: 0.10%
- i) Temp: 0.1°C

4. Temperature compensation: 0°C to 105°C (pH), 0°C to 50°C (EC)

5. Stability: ±0.001pH (+1 digit /3h or -1 digit /3h)

6. Input resistance: ≥3×10¹²Ω

7. Power source: 9V/800mA Adaptor

8. Outside dimension (L*W*H): 290*200*70mm

9. Weight: About 1 Kg.