

Tab Multi-Parameter

(All-in-One pH/ORP/EC/DO Meter)



MODEL: Multi-ComPass

DESCRIPTION

TOPLAB INDIA'S Microprocessor based Tab Multi-Parameter Model **Multi-ComPass** is best choice for any laboratory or field operator/user for advanced pH/ORP/EC/DO/Temperature 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-ComPass** Tab Multi-Parameter is a great tool for any laboratory operator and field user, which is one of the most accurate digital pH/ORP/EC/DO meters available in the market.

Multi-ComPass has the function of ATC (Automatic Temperature Compensation) and MTC (Manual Temperature Compensation), and is suitable to measure the pH or temperature value of solutions and the potential (mV) of electrodes. Furthermore, It can be upgraded at any time with additional probes to measure Conductivity or Dissolved Oxygen.

Features:

- **Multi-ComPass** has large Five inch LCD screen with wide 150° viewing angle, beautiful and compact design.
- Compact bench and wall cradle with rotary electrode holder to save space in laboratory.
- **Multi-ComPass** is Small Tablet size and portable making it easy to carry and remove in laboratory and outdoors uses.
- Multi-Parameter: different electrodes can be installed quickly to test pH/ORP, Conductivity and Dissolved Oxygen.
- Temperature Compensation: ATC/MTC (Automatic/Manual)
- Auto recognition of different electrodes which can automatically store and retrieve calibration data with built-in chip after electrode is connected.
- 3.5 mm jack input for electrodes makes it very easy for electrode connection.
- Two USB interfaces for PC connection, power and data transfer.
- Can store 300 data logs including readings, GLP data, date and time.
- Rechargeable and long lasting battery. Auto shut off if there is no operation in ten minutes.

SPECIFICATION

Model: **Multi-ComPass**

A. Measurement range:

- pH: -2.00pH ~ 19.99pH
- ORP/mV: -1999mV ~ +1999mV
- Temp: 0°C ~ 100°C
- Conductivity: (0.00 ~ 20.00) $\mu\text{S/cm}$
(20.0 ~ 200.0) $\mu\text{S/cm}$, (200 ~ 2000) $\mu\text{S/cm}$,
(2.00 ~ 20.00) mS/cm, (20.0 ~ 200.0) mS/cm.
- Resistivity: (0 ~ 100) M $\Omega\cdot\text{cm}$
- TDS: (0 ~ 100) g/L
- Salinity: (0 ~ 100) ppt
- DO Range: 0.00 ~ 90 mg/L (ppm)
- DO Saturation: 0.0~600%

B. Accuracy:

- pH: 0.01pH
- ORP/mV: 0.2% FS (± 1 digit)
- Temp: 0.4°C (± 1 digit)
- EC: $\pm 1.0\%$ FS; Instrument: $\pm 1.50\%$ FS
- DO: $\pm 0.5\%$

C. Resolution:

- pH: 0.01pH/0.1pH
- ORP/mV: 0.1mV
- Temp: 0.1°C
- EC: 0.01/0.1/ $1\mu\text{S/cm}$; 0.01/0.1mS/cm
- DO: 0.01/0.1mg/L

D. Stability:

- pH: 0.01pH(±1 digit /3h)
- ORP/mV: 0.1mV (±1 digit /3h)
- Temp: 0.1°C
- EC: ±0.01 μS/cm (±1 digit /3h)
- DO: ±0.07 mg/L/h

E. Temperature compensation: 0°C ~ 100°C (ATC or MTC)

F. pH Calibration Points: 1, 2 or 3 - Point Calibration (pH4.00, pH6.86, pH9.18)

G. EC Calibration Points: 1 or 2 Point Calibration (84 μS/cm, 1413 μS/cm, 12.88 mS/cm)

H. DO Calibration Points: One or Two points at 0%(Zero DO Solution) & 100% (in air)

I. pH Input resistance: ≥1×10¹² Ω

J. EC Electrode constant: 0.1/1/10 cm⁻¹
K. DO Salinity Compensation Range: 0.0 ~ 50.0 g/L

L. DO Air pressure Compensation Range: 80 ~ 105 kPa (automatic)

M. DO Pressure Resolution: 1kPa

N. DO Pressure Accuracy: ±2%

O. DO Response Time: ≤30 Sec (25°C, 90% response)

P. Power source: DC5V/1A Power Adaptor cum Charger

Q. Battery Type/Life: Up to 8 hrs of continuous use (Built-in rechargeable battery)

R. Data Storage: Yes, 300 Sets

S. Communication interface: Micro USB and standard USB

T. Protection: IP54 (Water-proof, Splash-proof and dust-proof)

U. Working Temperature & Humidity: 5°C ~ 35°C / ≤85%RH

V. Dimensions & Weight: 190*130*32mm/280g

Standard Scope of Supply:

Sr.No.	Desceiption	Quantity
1	Multi-ComPass pH/ORP/EC/DO meter	1 unit
2	pH electrode	1 piece
3	EC Probe	1 piece
4	DO Probe	1 piece
5	Temperature Probe	1 piece
6	Standard buffers(4.00, 6.86, 9.18pH)	1 set
7	Standard Conductivity Solution(1413 μS/cm)	1 Set
8	Power adapter	1 set
9	User manual	1 copy