TOPLAB INDIA
"Serving Science with Solution"

LABORATORY pH/ISE/CONDUCTIVITY METER

(Multi-Parameter pH/ISE/EC/TDS/Sal./Res. Meter)

MODEL: TOP-500pH/EC

DESCRIPTION

TOPLAB INDIA'S Microprocessor based Multi-Parameter pH/ISE/EC Meter is designed for full functionality and features. The bench top Multi-parameter pH/ISE/EC meter provides reliable pH, ISE and conductivity measurements. The Combination pH Electrode and Precision Glass Conductivity Electrode ensure highly stable & accurate pH and conductivity measurements. The pH/EC meters feature including comprehensive GLP data logging, real-time clock display. Manual or Auto timing data storage, USB data output and software support, auto calibration, auto temperature compensation, auto electrode recognition, parameter setting, self-diagnosis, calibration reminder, calibration time check, auto power-off, low-battery reminder, etc. and many more while retaining simplicity in use.

Advanced Features:

- **5.7 inches High resolution LCD display with backlight.**
- **Multi-reading feature allows auto-read, timed-read and continuous-read.**
- **Automatic/Manual temperature compensation ensures accurate results.**
- **Auto-hold feature senses and locks the measurement endpoint.**
- **Data Storage 500 sets (GLP-compliant).**
- **Support for USB or RS-232 communication.**
- **Reset feature automatically resumes all settings back to factory default options.**
- **Automatic electrode diagnosis with pH slope and offset display.**
- **Conductivity Settable parameters, including cell constant, temperature compensation coefficient and TDS factor.**
- **Support for Air-saturated water or Zero oxygen DO calibration.**
- **Auto barometric pressure compensation & Manual Salinity Factor Correction**
- **Over 10 ISE methods are built-in, including F-, Cl-, Br-, I-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc., user-defined method is supported.**

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Technical Specification:

Model:		TOP-500pH/EC
Measuring Range:	pH:	-2.00 ~ 20.00 pH
	mV:	-2000.0 to +2000.0 mV
	ISE:	$1.000e^{-9}$ to $9.999e^{+9}$ Unit: mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb
	EC:	0.0 µS/cm to 1000 mS/cm
	TDS:	0.00 ppm ~ 300 ppt
	Salinity:	0.0 ~ 80 ppt
	Resistivity:	5.00 Ω·cm~20.00 MΩ·cm
	Temperature:	*-5 to 110°C*
Resolution:	pH:	0.1, 0.01pH
	mV:	0.1 mV
	ISE:	Up to 4 significant digits
	Conductivity:	0.001 µS/cm minimum, various with range selection
	TDS:	0.01mg/L minimum, various with range selection
	Salinity:	0.1ppt
	Resistivity:	0.01 Ω·cm minimum
	Temperature:	0.1°C
Accuracy :		**pH:** ±0.01 pH ±1 digit, **mV:** ±0.1, **ISE:** ±0.5%, **EC:** ±1% F.S **TDS:** ±1%, **Salinity:** ±2ppt, **Resistivity:** ±1.0% FS
Temp. Accuracy:		±0.2°C ±1 digit
Temp. Compensation:		**ATC**- Auto or **MTC**-Manual
TDS Factor:		0.71 Factory Default (0.40 – 1.00 adjustable)
pH Calibration:		5 - Point Calibration (USA, GB, NIST& DIN)
ISE Calibration:		Up to 5 Point Calibration
EC Calibration:		1 to 3 Point (84µS/cm, 1413µS/cm, 12.88mS/cm)
Display:		5.7 inches High resolution LCD display with Backlight
Reading Mode:		Auto Read (Fast, Medium, Slow), Timed, Continuous
Reading Prompts:		Reading, Stable, Locked
Auto Shutdown:		Yes, 1~60 min, off
Date and Time:		Yes
Data Storage Capacity:		500 results each
Storage Content:		Numberings, Date, Time, Measurements, Unit, and Temperature
GLP Features:		Yes
Outputs:		**USB:** PC Connectivity, **RS232:** Printer Connectivity
Electrode Holder:		Yes – Flexible Electrode Holder
IP Rating:		IP54 (Water-Proof)
Operating Voltage:		DC 9V (AC Adaptor) Input Voltage: AC230V,50/60Hz
Meter Size/Weight: :		242×195×68 mm / 1.0 kg

Standard Scope of Supply:

- **TOP-500PH/EC – Multi-Parameter Main Unit**
- **Combined pH electrode**
- **Conductivity electrode**
- **pH standard solution(4.01, 7.00, 10.01) 50ml each**
- **1413µS/cm EC standard solution, 50ml**
- **Flexible electrode stand**
- **Operation Manual & Warranty Card**