

LABORATORY CONDUCTIVITY/TDS METER

(Research-grade EC Meter)



MODEL: TL-9000EC

DESCRIPTION

TOPLAB INDIA'S Microprocessor based Conductivity meters are designed for full functionality and features. The bench top EC meter incorporates a flexible sensor holder, an intelligent magnetic stirrer, and buffer organizers altogether, streamlining the process of measurement and calibration. The meters features including comprehensive GLP data logging, data export to printer or PC, calibration password protection, buffer organizers, self-diagnosis, i - Guru, and many more while retaining simplicity in use.

TOPLAB INDIA'S research-grade bench-top Conductivity meter marks a step forward for you into the field of high-accuracy conductivity/TDS/salinity/resistivity measurement. Although this meter is a complex and delicate instrument; its usability will allow many years of use if proper operating techniques are observed and practiced.

The TL-9000EC is 4 points automatic calibration with a choice of 4 conductivity standards (84µS/cm, 1413µS/cm, 12.88mS/cm, and 111.8mS/cm) or user-define standards. i - Guru is always available through the "i" key. Clear tutorial messages and directions are available on-screen to quickly and easily guide users through setup and calibration.

Manual/Auto Data logger with 1000 groups of storage with comprehensive GLP data input including electrode ID, user ID, sample ID, company name, and calibration password for data protection. USB Data export to PC for further analysis or to a pin-type mini printer for instant report (Optional).

Supplied with glass-body conductivity/temp. Electrode allows you to take highly accurate conductivity measurement in any sample solutions within a range of 0 to 200mS/cm at ±1% F.S accuracy.

Advanced Features:

- TFT Colour Screen graphic display with text messages.
- Up to 4 points automatic calibration with a choice of 4 conductivity standards (84µS/cm, 1413µS/cm, 12.88mS/cm, and 111.8mS/cm) or user-define standards.
- Standard BNC conductivity connector, compatible with all TOPLAB Conductivity Sensors; RCA connector for a temperature probe, NTC 30KΩ thermistor.
- One-tap switch from conductivity to TDS, salinity or resistivity.
- Three salinity types for your option: general salinity, saltwater salinity, and NaCl.
- Confirms GLP Data management Standard, each group data includes time & date, Sample ID, Storage ID, EX Sensor ID, and User ID.
- Operation with Password protection; Supports GLP Printed.

Technical Specification:

Model:	TL-9000EC				
Description:	EC	TDS	Salinity	Resistivity	Temp
Range:	0.00 µ/cm to 2000 mS/cm	0.00 mg/L to 1000 g/L	0.0 mg/L to 1000 g/L	0.00Ω.m to 100MΩ.m	-10°C to 110°C
Resolution:	0.01/0.1/1µ/cm; 0.01/0.1/1mS/cm	0.01/0.1/1mg/L; 0.01/0.1/1 g/L	0.00 to 100 ppt	0.00Ω.m to 100MΩ.m	0.1°C
Accuracy :	± 0.5°C± 1 digit				
Reference Temp.:	15 to 30° (adjustable)				
Temp. Compensation:	0 to 50°C (Auto or Manual)				
TDS Factor:	0.40 – 1.00 (adjustable)				
Salinity Type:	Linear / NaCl / Saltwater				
Temp. Coefficient:	0.00 to 10.00% (adjustable)				
EC Cell Constant:	0.1/1/10 cm ⁻¹				
EC Calibration:	Upto 4 - Point (USA, NIST and User-Define)				
Display:	TFT Colour Display				
Stable Reading Indicator:	Yes, with ☺ icon				
Automatic Hold:	Yes				
Date & Time:	Yes				
Data Storage Capacity:	1000 Sets				
Timing Storage:	Yes				
Self Diagnosis Info:	Yes				
Output Port:	USB				
GLP Print:	Yes (Printer Optional)				
External Keypad:	Yes (Optional)				
Sensor Connector Type:	BNC Connector				
Electrode Holder & Stirrer:	Yes (built-in)				
IP Rating:	IP54 (Water & Dust Proof)				
Operating Temperature:	0 to 40°C				
Operating Voltage:	DC 9V				
Meter Size:	360 x 165 x 400mm				
Package Weight:	1.25 kg				

Standard Accessories:

1. TL-9000EC – Main instruments (EC/TDS Meter)
2. Conductivity sensor & Temperature sensor
3. Electrode holder & Stirrer bar
4. PC-Link software (Pen drive)
5. USB Cable & Power adaptor (DC9V)
6. Operation Manual & Warranty Card

