

PICO⁺ pH/Conductivity Meter



pH Meter

This bench-top pH meter is an ideal help in every laboratory for routine or R&D level measurement. This very handy instrument measures pH, mV and has 40-point data memory storage.

Instrument has two operating modes -

- (a) Standard mode
- (b) GLP mode : 40 data readings can be stored, printed and scanned on display. For GLP mode, additional entries of sample name and ID number can be stored.

The optional Data logging function enables user to store 24 data points consisting of pH, temperature and time readings. For example as required in kinetic study or in any chemical reaction. Time intervals from 1min. to 1Hr. in steps of 1min. are available. User entries of pH limit values make the data more defined and informative.

Conductivity Meter

LABINDIA offers the perfect choice of a bench-top conductivity meter for measurements in the laboratories - whether routine or at R & D level. The conductivity meter offers better operating comfort and measuring confidence in all areas of application. Due to user selective temperature function, instrument calculates the conductivity at the reference temperature 25 +/- 0.1°C with linear function.

Conductivity is an important factor in water analysis for quality of drinking water, direct ionic concentration measurement in pharmaceutical preparations, waste water treatment plants, pollution control in lakes & rivers, boiler feed water and oceanography to determine salinity and TDS.



Common Features

- Advanced microcontroller based user friendly state-of-the-art design.
- PICO pH Meter complies to USP and DIN standards.
- Sleek moulded cabinet with alphanumeric splash waterproof polyester keyboard with soft keys.
- User interactive software in dialogue mode for ease of operation with protection against invalid entries.
- 20 x 2 line back lighted LCD display.
- Simultaneous measurement of pH, mV and temperature. Conductivity, TDS & Salinity optional.
- Non-volatile memory storage of:
 - a) 40 pH and 40 mV readings with temperature in pre-selected GLP or Non-GLP format.
 - b) 24 data memory readings of pH, temperature and time in data logging mode (optional).
- Password protection for calibration data and stored Readings.
- Calibration data with date and time stamp for authentication. Facility to view the calibration data.
- Calibration reminder alarm.
- Alphanumeric entries of sample name, identification number for authentication.
- Input stability indicator for reproducible results.
- Built-in real time clock (RTC) for time display and on report printout.
- Factory entered CUSTOMER NAME on report printout for authentication.
- Error indication helps the user to trace the problem.
- Audible beep indication during valid key operation.
- PC compatibility for data downloading (optional)
- Combined pH and conductivity instrument is available.

pH Meter

- Automatic temperature compensation by Pt.100 temperature sensor. Range 0° to 150° C.
- 3 point (Isopotential) or 5 point (linear or segmented) calibration protocol.

Conductivity Meter

- Automatic evaluation of CELL constant with standard solution.
- User selectable temperature coefficient for automatic temperature compensation, through special TEMPCO key.
- Input stability indicator for reproducible results.

Specifications

Common Specifications

Temperature

Temperature range	0 to 150° C
Resolution	0.1° C
Relative accuracy	+/- 0.2° C
Sensor	RTD PT100
Temp. Compensation	Automatic / Manual

Display

20 x 2 line back-lit LCD Display

Keyboard

Alphanumeric splash water-proof polyester soft keys.

Output

a) Printer	Parallel Port
b) RS 232C	PC connectivity

Environmental Operating Conditions

a) Operation	Indoor
b) Temperature	Ambient to 45° C
c) Relative humidity	5 to 90% non-condensing

Power Requirement 230 Vac, ± 10% / 50Hz., 10 W

Dimensions 305 x 220 x 70mm (W x D x H)

Weight 2.2 kgs

pH Meter Specifications

pH range	-2.00 to 19.999
Resolution	0.1/ 0.01/ 0.001 pH
Relative Accuracy	+/- 0.002 pH
Slope	3 points 80% to 120%, 5 points 90% to 105%
Sensor	Combination pH electrode
Calibration	Auto-calibration & printout of calibration Report.

millivolt

mV range	0 to +/- 1999.9 mV
Resolution	+/- 0.1 mV
Relative accuracy	+/- 0.2 mV

Input

1 BNC, 1 Banana, 1 ATC - PT 100

Input Impedance

> 10¹² ohms

Report format

- (a) Report of selected pH & mV reading with temperature.
- (b) Calibration report
- (c) Data table & Graph (optional)

Conductivity Meter Specifications

Conductivity Measuring Range Autoranging 0.01µS/cm to 199.9 mS/cm. (Depending on the cell used 0.1/1.0/10.K)

Resolution 0.01 (displayed)

Accuracy 0.5%

Input

2 - Banana socket for conductivity electrode, 1-ATC-PT100

Report format

- (a) Calibration report
- (b) Report of all selected Conductivity, TDS and Salinity readings

LABINDIA reserves the right to change specification without notice as part of its continuous programme of product development.

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