DPA - 3001
Digital Ph Analyzer

pH/mV/ºC/ORP Analyzer

Supplied with Combination Glass pH Electrode (0-70ºC), Standard Buffer Tablets (7.00 pH, 4.01 pH & 9.18 pH), Temperature Probe, Electrode Stand consists of Clamp, Base Plate & Rod, Dust Cover, DC Adaptor, ATL safe software, USB Interface Cable, Operational & Instruction Manual with SOP, Calibration Test Certificate (Without Traceability Document) and Warranty Card.

Technical Specification

pH

Range	: -2.000 to 20.000pH
Selectable Resolution	**: 0.1 / 0.01 / 0.001 pH**
Relative Accuracy	: ± 0.002 pH

mV/ORP

Range – mV / RmV	: ± 2000.0
ORP	: EH auto calibration to standard hydrogen electrode
Resolution	: 0.1
Relative Accuracy	: ± 0.2 mV OR 0.05%, whichever is greater.

Temperature

Range	: -5.0 to 130.0ºC
Resolution	: 0.1ºC
Relative Accuracy	: ± 0.1ºC
Temperature Compensation	: Auto / Manual
Temperature Calibration	**: In-built software and can be calibrated by users**
Selectable Slope	**: 1) 80-120 %**
	2) 90-110 %
	3) Customized slope (User adjustable)
Total Numbers of Slope	**: 1) 4.01, 6.86 / 7.00, 9.18 / 10.01 pH @ 25ºC for Three points**
Auto Buffer Recognition	**2) 1.68, 4.01, 6.86 / 7.00, 9.18 / 10.01 & 12.45 pH @ 25ºC for Five points**
	3) Ten pH Buffer, 6.86 / 7.00 @ 25ºC for Multipoint Calibration.

Calibration Reminder Alarm	: 0-99 hours
Display Reading	: Simultaneous - pH, mV & Temperature
Result hold / un-hold	: By "hold / un-hold" Key
Result	**: Auto / Manual**
Buffer Standard	**: US / NIST / EURO / DIN**
Error Messages	**: "Bad Buffer / Electrode", "Temperature Probe Error", "In-complete Calibration", "Calibration Due", "Low Memory" & "pH Over Range".**
Short Link	**: Provided to diagnose the problem either with Instrument OR Electrode.**
Display	: 20 x 4 Line Alphanumeric Backlit LCD
Keypad	: Membrane waterproof polycarbonate soft touch keypad compliance to UL/ROHS
Calibration Data Storage	: Non-Volatile Memory which can store, print & view calibration date & time, calibration done by, calibration point, pH, mV, temperature, % slope, validation pH for Calibration standard buffers, instrument serial number, instrument ID, Model name, etc.
Analysis Data Storage	: **More than 1500** analysis data can be stored, printed & viewed with corresponding calibration data with company name, analysis date & time, record number, batch number / ID, sample name, username, pH, mV, temperature reading, Corresponding Calibration Data, instrument serial number, instrument ID, model name etc. Secondly, analysis data can be print online.
Searching of data	: With record number, batch number, date, date range and by scrolling.
Report Formation	**: As per GLP Compliance.**

21 CFR Part-11 Compliance

: • In-built with system for ease of operation without PC.

• 2 Admin, 10 Reviewers, 40 Users & 1 Manufacturer with individual Login ID & Passcode.

• Audit trail can store more than 5000 lines in instrument.

• Audit trail includes action taken, date & time, action taken by whom.

• Audit trail can be transfer to PC through ATL safe software and can print on 40 / 80 column dot matrix printer for record.

• Admins can set up operation permission of each Users & Reviewers.

• Strict Admins control to audit and monitor usage and access.

• Audit trail record can be printed with Date, Date Range and by individual User's ID.

• Once Audit trail transfer to the PC or Printer, system will delete Audit trail records and before final deletion, the system will give warning twice.

• Data integrity with database capability to store Analysis Data, Calibration Data, Audit trail and Passcode in instrument.

• No direct access to data from outside the instrument, thereby creating a closed system.

• Audit traceability to ensure that the device and results are appropriately handled.

• Auto User's logout after defined Logout time.

• Auto Users & Reviewers block when password is entered incorrectly 3 consecutive times.

Printer Interface : Centronics Parallel Port / Serial (RS-232 C) Port

Printer : 40 / 80 Column Dot Matrix Printer (Printer to be procure optionally)

PC Interface : USB Type - B

PC Connectivity : By USB Interface Cable with Driver, **ATL** software to transfer

Analysis data in GLP format, Calibration data and Audit trail from

Instrument to PC in **non-editable format (Cannot be Deleted)**

Power Supply : DC Adaptor