

pH/mV/°C/ORP Analyzer (Three / Five Point Calibration)
Model: μ pHCal50 | Make: ANALAB | HSN Code: 90278990



Supplied with Combination Glass pH Electrode (0-70°C), 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, Operational & Instruction Manual with SOP, Calibration Test Certificate (Without Traceability Document) and Warranty Card.

Technical Specification:

pH

Range : -2.000 to 20.000 pH

Selectable Resolution : **0.1 / 0.01 / 0.001 pH**

Relative Accuracy : $\pm 0.02 / 0.002$ 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 130.0°C

Resolution : 0.1°C

Relative Accuracy : $\pm 0.1^\circ\text{C}$

Temperature Compensation : Auto / Manual

Temperature Calibration : **In-built software and can be calibrated by users**

Selectable Slope : **1) 80-120 %**
2) 90-110 %

Total Numbers of Slope : **4 slopes for Five-point calibration & 2 slopes for Three-point calibration**

Auto Buffer Recognition : **1) 4.01, 6.86 / 7.00, 9.18 / 10.01 pH @25°C for Three points**
2) 1.68, 4.01, 6.86 / 7.00, 9.18 / 10.01 & 12.45 pH @25°C for Five points

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 750 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 with Corresponding Calibration Data, instrument serial number, instrument ID, model name etc. Secondly , analysis data can be print online without saving analysis data in instrument.
Searching of data	: With record number, batch number, Date, Date Range and by scrolling.
Report Formation	: As per GLP Compliance
Password Protection	: Date & Time, Calibration Mode, Analysis Mode & Delete Stored Analysis Data.
Printer Interface	: Centronics Parallel Port / Serial (RS-232 C) Port
Printer	: 40 / 80 Column Dot Matrix Printer (Printer to be procure optionally)
Power Supply	: DC Adaptor

Optional

1. IQ/OQ/PQ/DQ Documents

Note: a) Please provide Customer's Name & Address prior to dispatch.

b) To perform onsite documentation, visit charge will be extra depending upon place of Installation.

c) Traceability documents along with installation report.

d) Standards / Chemicals / Buffers required to perform documents are in customer's scope.

e) We don't send documents by email.

2. NIST Traceable pH Buffer Standards 1.68 / 4.01 / 7.01 / 9.18 / 12.45 pH @ 25°C

Any one Buffer (Capacity : 480 ml each)

3. Keypad Screen Guard

4. Traceability Documents

Available other Models of pH/mV/°C Analyzer

- Digital pH/mV Meter Model: pHCal • pH/mV/°C Analyzer Model: μ pHCal5 with Two Point Calibration
- pH/mV/°C Analyzer Model: μ pHCal5+ with Two / Three Point Calibration
- pH/mV/°C/ORP Analyzer Model: μ pHCal10+ (Two / Three Point Calibration & Non-GLP Format Printing Facility)
- pH/mV/°C/ORP Analyzer Model: μ pHCal50 (Three / Five Point Calibration with GLP Format Printing Facility)
- pH/mV/°C/ORP Analyzer Model: μ pHCal100 (Multipoint Calibration with 21CFR Part-11 Compliance)
- Handheld pH/mV/°C Analyzer Model: μ pHCalHandheld (Two Point Calibration)
- Online pH Controller Model: μ pHCalOnline with Three Point Calibration

Product Range

- pH/mV/°C/ORP Analyzer • Conductivity/TDS/Resistivity/Salinity/°C Analyzer
- Multiparameter Analyzer (pH/ORP/Conductivity/TDS/Resistivity/Salinity/°C)
- Karl Fischer Titrator • Auto Titrator • Automatic Melting Point Apparatus
- Flame Photometer • Friability Test Apparatus • Tablet Dis-integration Test Apparatus
- Tap Density Test Apparatus • Tablet Hardness Tester • Leak Test Apparatus
- Tablet Dissolution Test Apparatus • Electromagnetic Sieve Shaker • Ultrasonic Bath (Sonicator) • Analytical Electronics Balance • Halogen Based Moisture Analyzer
- Visible & UV-Vis. Spectrophotometer • Nitrogen Gas Generator • Zero Air Gas Generator • Combination Nitrogen / Zero Air Gas Generator • Air Drying Unit for TOC Analyzer • Dew Point Apparatus • Gas Handling & Purification System • Laboratory Furniture & Fume Hood • Exhaust Hood for AAS/ICP.

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Specification & design are subject to change without prior notice for our continuous development.