

# pH/mV/°C/ORP Analyzer (Multipoint Calibration & 21 CFR Part-11 Compliance) Model:µpHCal100 | 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, ANALABsafe software, USB Interface Cable, Operational & Instruction Manual with SOP, Calibration Test Certificate (Without Traceability Document) and Warranty Card.



# **Technical Specification:**

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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	:	$\pm 2000.0$
ORP	:	EH auto calibration to standard hydrogen electrode
Resolution	:	0.1
Relative Accuracy	:	$\pm$ 0.2 mV OR 0.05%, whichever is greater.
Temperature		
Range	:	-5.0 to 130.0°C
Resolution	:	0.1°C
Relative Accuracy	:	$\pm 0.1^{\circ}$ C
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	:	4 slopes for Five-point calibration & 2 slopes for Three-point calibration
		Maximum 10 Slope's depending upon points calibrated.
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
		3) Ten pH Buffer, 6.86 / 7.00 @ 25°C 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

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		ANALAB®
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	:	<b>More than 1500</b> 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. <b>Secondly,</b> analysis data can be print online.
Searching of data	:	With record number, batch number, date, date range and by scrolling.
<b>Report Formation</b>	:	As per GLP Compliance.
21 CFR Part-11 Compliance	:	<ul> <li>In-built with system for ease of operation without PC.</li> <li>2 Admin, 10 Reviewers, 40 Users &amp; 1 Manufacturer with individual Login ID &amp; Passcode.</li> <li>Audit trail can store more than 5000 lines in instrument.</li> <li>Audit trail includes action taken, date &amp; time, action taken by whom.</li> <li>Audit trail can be transfer to PC through ANALABsafe software and can print on 40 / 80 column dot matrix printer for record.</li> <li>Admins can set up operation permission of each Users &amp;</li> </ul>
		Reviewers.
		<ul> <li>Strict Admins control to audit and monitor usage and access.</li> <li>Audit trail record can be printed with Date, Date Range and by individual User's ID.</li> </ul>
		<ul> <li>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.</li> </ul>
		• 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.
		<ul> <li>Audit traceability to ensure that the device and results are appropriately handled.</li> </ul>
		Auto User's logout after defined Logout time.
		<ul> <li>Auto Users &amp; Reviewers block when password is entered incorrectly 3 consecutive times.</li> </ul>
Printer Interface	:	Centronics Parallel Port/Serial (RS-232 C) Port
Printer PC Interface	:	40 / 80 Column Dot Matrix Printer (Printer to be procure optionally) USB Type - B



PC Connectivity

: By USB Interface Cable with Driver, **ANALABsafe** 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

### **Optional**

- 1. IQ/OQ/PQ/DQ Documents
  - **Note:** a) Please provide Customer's Name & Address prior to dispatch.

DC Adaptor

- 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. GMP Enclosure made up of Stainless Steel
- 4. 40/80 Column dot matrix printer
- 5. Keypad Screen Guard
- 6. Traceability Documents

#### Available other Models of pH/mV/°C Analyzer

- Digital pH/mV Meter Model: pHCal pH/mV/°C Analyzer Model: µpHCal5 with Two Point Calibration
- pH/mV/°C Analyzer Model:  $\mu$ pHCal5+ with Two / Three Point Calibration
- pH/mV/°C/ORP Analyzer Model: µpHCal10+ (Two / Three Point Calibration & Non-GLP Format Printing Facility )
- pH/mV/°C/ORP Analyzer Model: µpHCal50 (Three / Five Point Calibration with GLP Format Printing Facility)
- pH/mV/°C/ORP Analyzer Model: μpHCal100 (Multipoint Calibration with 21CFR Part-11 Compliance)
- Handheld pH/mV/°C Analyzer Model: µpHCalHandheld (Two Point Calibration)
- Online pH Controller Model: µpHCalOnline 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 Disadution 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.



#### ANALAB SCIENTIFIC INSTRUMENTS PVT. LTD. AN ISO 9001 : 2015 CERTIFIED CO. CIN: U33110GJ2005PTC046555

- Plot No. 361, Sayajimarket,
  - N. H. No. 8 By-Pass,
  - At & Post : Sayajipura,
  - Vadodara 390019, Gujarat, India.
- +91 265 2514404, 9714503393
- 🖂 info@analab.co.in
- www.analab.co.in, www.analabscientific.com

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