

Multiparameter Analyzer (pH/ORP/Conductivity/TDS/Resistivity/Salinity/°C) (21 CFR Part-11 Compliance)

Model: μ MultiCal100 | Make: ANALAB | HSN Code: 90278990



Supplied with Combination Glass pH Electrode (0-70°C), Conductivity Cell K=1.0, Standard Buffer Tablets, Temperature Probe, Electrode Stand consists of Clamp, 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:

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pH | |
| Range | : -2.000 to 20.000 pH |
| 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. |
| Selectable Slope | : 1) 80-120 % 2) 90-110 % 3) Customized slope (User adjustable) |
| 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 |
| pH Result | : Auto / Manual |
| pH Buffer Standard | : US / NIST / EURO / DIN |
| Short Link | : Provided to diagnose the problem either with Instrument OR Electrode. |
| Conductivity Range | : 0 - 20.00, 20 - 200.0, 200 - 2000 μ S/cm, 2 - 20.000, 20 - 200, 200 - 2000 mS/cm for K=1.0 : 0 - 10.00, 10 - 100.0, 100 - 1000 μ S/cm, 1 - 10.000, 10 - 100, 100 - 1000 mS/cm for K=0.5 : 0 - 2.00, 2 - 20.0, 20 - 200, 200 - 2000 μ S/cm, 2 - 20, 20 - 200 mS/cm for K=0.1 (Range value change depending upon cell selection) |
| Conductivity Resolution | : 0.001, 0.01, 0.1 μ S/cm & 0.001, 0.01, 0.1, 1 mS/cm |
| TDS Range | : 0 to 10, 100, 1000, 10000 ppm, 100ppt, 1000ppt (Depending on TDS Factor) |
| TDS Resolution | : 0.001, 0.01, 0.1 ppm & 0.001, 0.01, 0.1 ppt (1ppt=1000ppm) |
| Resistivity Range | : 20.00 M Ω to 50.00 K Ω , 5.00 K Ω , 500.00 Ω , 50.00 Ω , 0.50 Ω |
| Resistivity Resolution | : 0.001 |
| Salinity | : 0.01 to 80000.0 ppm NaCl |

| | |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Range | : Six |
| Calibration Standard | : Six Conductivity & TDS Standard - One Per Range |
| Calibration Factor | : Six - One Per Range |
| Range Selection | : Auto / Manual |
| Suitable Cell Constant | : 0.1, 0.5 & 1.0 K |
| Adjustable Cell Constant | : 0.09 to 0.11 K, 0.45 to 0.55 K & 0.90 to 1.1 K |
| Conductivity to TDS Conversion | : 0.40000 to 1.00000 (Adjustable Factor) |
| Temperature Coefficient | : Six - 0-10.000 % per °C (Adjustable) - One Per Range |
| Reading | : Conductivity at actual temperature and at 25°C, TDS, Resistivity & Salinity with scrolling display. |
| Temperature Range | : -5.0 to 130.0°C |
| Temperature Resolution | : 0.1°C |
| Temperature Compensation | : Auto / Manual |
| Temperature Calibration | : In-built software and can be calibrated by users |
| Calibration & Analysis | : pH Mode, ORP Mode, Conductivity Mode and TDS mode. |
| Error Message | : “Wrong standard / Cell”, “Cell Short”, “Cell Open”, “Try Upper Range”, “Try Lower Range”, “Bad Buffer / Electrode”, “pH Over Range”. “Temperature Probe Error”, “In-complete Calibration”, “Calibration Due”, & “Low Memory” |
| Display | : 20 x 4 Line Alphanumeric Backlit LCD. |
| Keypad | : Membrane waterproof polyester soft keypad compliance to UL/ROHS. |
| Calibration Data Storage | : Non-Volatile Memory can store, print & view calibration details. |
| Analysis Data Storage | : More than 1000 analysis data can be stored with corresponding calibration data, company name, analysis data, sample name, sample batch/ID, username 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 | : <ul style="list-style-type: none"> • 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 ANALABsafe 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, 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 | : DC Adaptor |

Optional

1. IQ/OQ/PQ/DQ Documents

Note:

- Please provide Customer's Name & Address prior to dispatch.
- To perform onsite documentation, visit charge will be extra depending upon place of Installation.
- Traceability documents along with installation report.
- Standards / Chemicals / Buffers required to perform documents are in customer's scope.
- We don't send documents by email.

2. 40 / 80 Column dot matrix printer

3. Keypad Screen Guard

Other Models of Multiparameter Analyzer

- Multiparameter Analyzer (pH/ORP/Cond./TDS/°C) Model: μ MultiCal10 with Printing Facility
- Multiparameter Analyzer (pH/ORP/Cond./TDS/Resistivity/Salinity/°C) Model: μ MultiCal50 with Printing Facility as per GLP Format
- Multiparameter Analyzer (pH/ORP/Cond./TDS/Resistivity/Salinity/°C) Model: μ MultiCal100 with 21 CFR Part-11 Compliance
- Handheld Multiparameter Analyzer (pH/ORP/Conductivity/TDS/°C) Model: μ MultiCalHandheld

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.

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

