

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, 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:

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.

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