

Auto Ranging Conductivity/TDS/Resistivity/Salinity/°C Analyzer (21 CFR Part-11 Compliance)

Model: μ ConCal100 | Make: ANALAB | HSN Code: 90278990



Supplied with Conductivity Cell $K = 1.0$, 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:

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
Temperature Range	: -5.0 to 130.0 $^{\circ}$ C
Temperature Resolution	: 0.1 $^{\circ}$ C
Temperature Compensation	: Auto / Manual
Temperature Coefficient	: Six - 0-10.000 % per $^{\circ}$C (Adjustable) - One Per Range
Temperature Calibration	: In-built software and can be calibrated by users
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)
Reading	: Conductivity at actual temperature and at 25 $^{\circ}$ C, TDS, Resistivity & Salinity with scrolling display.
TDS Calibration & Analysis	: In Separate Mode
Error Messages	: “Wrong Standard / Cell”, “Cell Short”, “Cell Open”, “Try Upper Range”, “Try Lower Range”, “Temperature Probe Error” & “Low Memory”

- 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 with calibration date & time, cell constant, calibration range, standard conductivity solution, measured conductivity at 25°C, actual temperature, calibration factor, instrument serial number, instrument ID, model number etc.
- Analysis Data Storage : **More than 1500** analysis data can be stored with corresponding calibration data with company name, analysis date & time, record number, batch number / ID, sample name, username, conductivity at 25°C and conductivity at actual temperature, % Tempco, conductivity to TDS conversion factor, TDS, resistivity, salinity, instrument serial number, instrument ID, model number etc. **Secondly**, analysis data can be print online.
- Searching of data : With record number, batch number/ID, 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 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

01. 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.

02. Conductivity Cell with Connector (Cell Constant K=0.1)

03. Conductivity Cell with Connector (Cell Constant K=0.5)

04. Magnetic Stirrer with Rod, Electrode Clamp, Stirring Paddle (8 mm ϕ x 6 mm Long) & DC Adaptor. (Recommended for conductivity measurement below 100 μ S/cm for accurate result.)

05. NIST Traceable Conductivity Calibration Solution - 300ml - 1.3 μ S/cm @ 25°C

06. NIST Traceable Conductivity Calibration Solution - 480ml - 5.0 μ S/cm OR 10 μ S/cm @ 25°C

07. NIST Traceable Conductivity Calibration Solution - 480ml - 100 μ S/cm @ 25°C

08. NIST Traceable Conductivity Calibration Solution - 480ml - 1413 μ S/cm @ 25°C

09. NIST Traceable Conductivity Calibration Solution - 480ml - 12.88mS/cm @ 25°C

10. NIST Traceable Conductivity Calibration Solution - 480ml - 111.8mS/cm @ 25°C

11. Third Arm Stand

12. GMP Enclosure made up of Stainless Steel

13. 40 / 80 Column dot matrix printer

14. Keypad Screen Guard

15. Traceability Documents

Available other Models of Conductivity/TDS/°C Analyzer

- Auto Ranging Conductivity/TDS/°C Analyzer Model: ConCal+ (Single Range Calibration)
- Auto Ranging Conductivity/TDS/°C Analyzer Model: μ ConCal5+ (Five Range Calibration)
- Auto Ranging Conductivity/TDS/°C Analyzer Model: μ ConCal10+ (Five Range Calibration with Printing Facility as per Non-GLP Format)
- Auto Ranging Conductivity/TDS/Resistivity/Salinity/°C Analyzer Model: μ ConCal50 (Five Range Calibration with Printing Facility as per GLP Format)
- Auto Ranging Conductivity/TDS/Resistivity/Salinity/°C Analyzer Model: μ ConCal100 with 21 CFR Part-11 Compliance
- Handheld Auto Ranging Conductivity/TDS/°C Analyzer Model: μ ConCalHandheld (Single Range 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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