

Auto Titrator (21 CFR Part-11 compliant) Model: µTitraCal100 | Make: ANALAB | HSN Code: 90278990



Basic Unit consist of Combined Glass Electrode with suitable connector, Rod Stirrer, Titration Vessel holders, Titration Vessels, 20ml Burette, Valve Jet assembly, Teflon Tubing with Connector, Stand, Standard Software, Communication Cable, Operational & Instruction Manual with SOP, Calibration Test Certificate (Without Traceability Document) and Warranty Card.

(Note: Computer must procure optionally to operate the system)



Applications:

Auto Titrator is a highly competitive equipment matching almost all technical specifications. It is a complete titration equipment for potentiometric titration for both aqueous solutions with acid base and non-aqueous solutions such as Perchloric acid and Tetra Butyl Ammonium Hydroxide.

Potentiometric titration is most required in any chemical analysis. This type of analysis weighs in highly in pharmaceutical research and industry and is very economical and accurate. Other applications of this type of analysis are multitude but to draw a few examples, here is a list of industrial and research applications Antibiotics such as Norfloxacin, Ciprofloxacin, Ampicillin and Amoxicillin.

Technical Specification:

pH Range : 0 to 14 pH Resolution : 0.001 pH pH Calibration Point : Three Point

Volume dosing : 0.001 to 999.999 ml Volume resolution : 0.001 ml to 1 Ml

Type of dosing : Automatic by Auto Burette

Filling & Dosing of Titrate : Automatic during titration process

% RSD : Less than 1%

Dosing resolution : 1/20,000 Resolution

Burette Calibration : Yes – in built with system

Burette Correction : Yes – inbuilt with system

Stirring : Overhead stirring with help of Teflon spindle and ease of speed

controlling knob on handy Stirrer

PC Connectivity : Fully computer-controlled unit with all operations done using our

proprietary software which makes this unit ideal for analysis especially

within the Pharma industry.

Type of Titration : • Acid/Base titration

Aqueous / Non-Aqueous titration

Amperometry titration

Redox titration

Chelatometric titration



- Precipitation titration
- Argentometric titration for Chloride, Bromide, Iodide and Cyanide
- Complexometric titration such as EDTA titration for metal ion estimation
- Lubricant and Transformer Oil analysis TAN and TBN (ASTM procedure)
- Silver assay for hallmarking

21 CFR Part 11 compliant

- Java platform to work across any configuration of computer.
- Data integrity with database capability to store method files, result files, audit trail and passwords.
- Strict admin controls to audit and monitor usage and access.
- No direct access to data from outside the Titrator application, thereby creating a closed system.
- Unlimited admin & user's creation. Auto email trigger when a new user is reacted.
- Audit traceability to ensure that the device and results are appropriately handled.
- Auto password expiry after a fixed period to ensure password integrity.
- Unlimited record keeping within the database.
- Auto lock out when password is entered incorrectly 3 times.
- Easy to use and set up method files with upload option for SOP.

PC Interface : Serial (RS-232 C) Port Power Supply : $230VAC \pm 10\% 50 Hz$



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. Silver Electrode with inbuilt reference with suitable Connector
- 3. Platinum Electrode with inbuilt reference with suitable Connector
- 4. Combination Glass pH Electrode with suitable Connector for Non-Aqueous Titration
- 5. Combination Glass pH Electrode with suitable Connector for Aqueous Titration
- 6. Burette, Valve Jet Assembly, Teflon Tube with Connector and Stand
- 7. Traceability Documents

Available other Models of Auto Titrator

- Auto Titrator Model: μTltraCal50 with PC/Laptop Connectivity
- Auto TitratorModel: μTitraCal100 with 21 CFR Part-11 & PC/Laptop Connectivity

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 Fleetremagnetic Cique Cheler Ultresenie De
- 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
 Air Drying Unit for TOC Analyzer
 Dew Point Apparatus
 Gas Handling & Purification System
 Laboratory











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