

Microcontroller Based Karl Fischer Titrator

Model: μ AquaCal50 | Make: ANALAB | HSN Code: 90278990



Supplied with 250ml Reaction Vessel, Dual Platinum Combined Electrode, Teflon Paddle, Teflon Assembly, Moisture Trap (02 Nos.), 250ml Amber Reservoir Bottle, Dispensing Tube (02 Nos.), Micro tip (02 Nos.) Teflon Tube for Dispensing Path, Power Cord, Operational & Instruction Manual with SOP, Calibration Test Certificate (Without Traceability Document) and Warranty Card.

Technical Specification:

Method of Detection	: Conductometric / Volumetric
Range of Moisture Detection	: Better than 50 ppm to 100% (depends upon type of sample)
Dispensing Resolution	: 0.001ml
Magnetic Stirrer	: Built-in with soft touch Key speed controller
Calibration	: Average factor can be calculated by <ul style="list-style-type: none"> 1) Water by volume 2) Water by weight 3) By DST
Method	: 40 with Three pre-assigned methods <ul style="list-style-type: none"> 1) Liquid by volume 2) Liquid by weight 3) For Solid sample Method No. 4-40 are customized with View, Print & Delete facility.
Auto Neutralization	: On / Off - users selectable - reduces the time between analysis & gives accurate results
Stirring Time	: 00:00 to 99:00 (mm:ss) – users adjustable
End Point Sensitivity	: 80-100 - users adjustable
End Point Time	: 1-20 seconds - users adjustable
End Point mV	: 1000-3000 mV - users adjustable
End Point Detection	: By Audio & Visual Alarm
Calibration Reminder Alarm	: 0-99 Hours
Over titration Alarm	: Audio / Visual Alarm at 15 ml to save KF Reagent
Display of Reading	: Moisture in ppm, percentage (%), mg/ml of water, gm/L, Mol/L
Auto Drain	: For cleaning reaction vessel - useful for large & multiple volume sample
Flush	: For cleaning dispensing path
Calculation of % RSD	: Possible
Average KF Factor Calculation:	Automatic - Maximum 5 factor can be stored in memory.
Weight Entry	: In Resolution of 0.1 mg / 0.01 mg - users selectable
Dispenser Calibration/Validation:	Onsite by users
Dispenser MOC	: SS-316L & Teflon for Corrosion Protection & Maintenance Free Operation
Dispenser Type	: Motorized - For accurate measurement
Teflon Tube	: To transfer KF reagent from KF reagent bottle to dispenser & dispenser to reaction vessel
Material of Construction	: Epoxy Based Powder Coated Metallic Body / GMP Enclosure made up of Stainless Steel
Type of Electrode	: Dual Platinum - Combined Type
Input	: Electrode with Banana Connector

Error Messages	: “Over KF”, “KF Factor Error”, “Max. Factor Reached” & “Low Memory”
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
Calibration Data Storage	: Non-Volatile Memory which can store, print & view calibration date & time, calibration method, calibration done by, stirring time, average KF factor, % RSD, instrument serial number, instrument ID etc.
Analysis Data Storage	: More than 750 analysis data, with corresponding calibration data company name, analysis date & time, record number, batch / ID number, sample name, username, sample type and method, sample volume (ml / mg), sample density (for liquid sample), stirring time, end point time, end point in ml, moisture result in %, ppm & H ₂ O (mg / ml), analysis done on, instrument serial number, instrument ID etc. Secondly, analysis data can be print online without saving analysis data in Instrument.
Searching of data	: With record number, batch number/ID, date, date range and by scrolling.
Report Formation	: As per GLP Compliance
Password Protection	: Date & Time, Calibration Mode, Analysis Mode, Delete Stored Analysis Data and Delete Stored Analysis Method.
Printer Interface	: Centronics Parallel Port / Serial (RS-232 C) Port
Printer	: 40 / 80 Column Dot Matrix Printer (Printer to be procure optionally)
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. Syringe for factor calculation

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 Karl Fischer Titrator

- Karl Fischer Titrator Model: μ AquaCal5 (0.1 ml Auto Dispenser)
- Karl Fischer Titrator Model: μ AquaCal10+ (0.01 ml Auto Dispenser & Auto Drain with Printing Facility as per Non-GLP Format)
- Karl Fischer Titrator Model: μ AquaCal50 (0.001 ml Auto Dispenser & Auto Drain with Printing Facility as per GLP Format)
- Karl Fischer Titrator Model: μ AquaCal100 (0.001 ml Auto Dispenser & Auto Drain with 21 CFR Part-11 Compliance)

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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Specification & design are subject to change without prior notice for our continuous development.