

KARL FISCHER TITRATION APPARATUS

MODEL: VEEGO/MATIC-EX (CFT)

21 CFR Part 11 Compliant



TECHNICAL SPECIFICATIONS:

- Four User Level Based Functionality.
- Role Based Access Control.
- User Management Module for Account Setting, Editing etc.
- Unique User Id.
- Password Management as per Guidelines.
- System Time-Out after Idleness
- Print Copy Number for Test Report
- Back-Up Folder Facility
- Authentication of Test Results by Operator with Date and Time Stamped.
- All User Actions Recorded in Audit Trail with Date and Time Stamped.
- Non-Editable Audit Trail.

KARL FISCHER TITRATION APPARATUS, 21 CFR Part 11 Compliant MODEL : VEEGO/MATIC – EX (CFT)

This is an advanced and sophisticated instrument, designed for accurate estimation of moisture in various samples. It is used in QC and R&D labs in Pharmaceutical, Chemical and other industries.

The instrument is having a Magnetic Stirrer, Motorized Dispenser to add Karl Fischer Reagent and 7 Inch TFT color monitor with capacitive touch screen for easy programming. The volume of the K. F. Reagent added, is displayed on the TFT color monitor. The end point of the titration is indicated by an audio signal. The instrument supports both DST and Water for factor determination of the K. F. Reagent. The instrument is having facility to store required test methods for testing samples. These methods are user programmable and pass word protected. The instrument is having built-in Validation facility for dispensed volume.

FEATURES:

- Automatic Drift Compensation.
- Supports Two Methods for Factor: Water and DST.
- Incorporated with maintenance free Metering Pump.
- Valve-less Dispenser eliminates the need of cumbersome Piston Burette.
- No Refilling of reagent is necessary after every titration.
- Results in Percentage, PPM and mg. of H₂O.
- On line messages for user friendly operations.
- On line information of the Titration Status.
- Error Messages to avoid wastage of chemicals.
- Built-in Volume Validation Facility.
- Serial Port for Balance Interface
- Attractive user interface with graphic widgets and icons for interactive communication.
- Method Storage facility for Test Methods.



FEATURES OF CFR SOFTWARE:

- Four User Level based functionality: System Admin, Admin, Supervisor and User.
- Role Based Access Control.
- Login Screen to login into software.
- Incorporated with User Management Module for Account Setting, Editing etc.
- Uniqueness of User Id.
- Back-Up and Restore facility
- Embedded with high performance single board computer for speedy data processing.
- Large capacity for data storage.
- Network Printing facility for reports.
- Printout as per GLP requirements.
- Search and Report facilities.
- All User Actions Recorded in Audit Trail with Date and Time Stamped.
- Non-Editable Audit Trail.

SPECIFICATIONS:

- Range of Moisture Detection: 50 PPM to 100 % with appropriate Sample Size.
- Dispensing Resolution: 0.01 ml
- Display/ Keyboard: 7 Inch TFT color monitor with capacitive touch screen for easy programming.
- Balance Interface: 9 Pin D Type Serial RS 232 Port.

Model: VEEGO/MATIC – EXT

Same as above Model VEEGO/MATIC – EX(CFT) without 21 CFR Part 11 Compliance

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DIGITAL AUTOMATIC

KARL FISCHER MOISTURE ANALYZER

VEEGO/MATIC - MD

DESIGNED FOR ACCURATE
ESTIMATION OF MOISTURE



User friendly volumetric titrator

Valve-less & glass free dispenser

Titer factor calculation facility

Results format: Percentage, PPM and mg. of H₂O

Alpha-numeric backlit graphic display

On line information of the titration status

Fabricated in SS cabinet

DIGITAL AUTOMATIC KARL FISCHER MOISTURE ANALYZER

VEEGO/MATIC – MD

VEEGO/MATIC – MD is Micro-Controller based auto-matic Karl Fischer Titrator designed for accurate estimation of moisture contents in various samples. It is used in QA, QC and R&D labs in Pharmaceutical, Chemical and other industries.

The instrument is equipped with a built-in Magnetic Stirrer and Motorized Dispenser for addition of Karl Fischer Reagent. A backlit graphic display and feather touch keyboard on front panel make the instrument easy to operate.

To start with the titration, Methanol is added to the titration cell and is neutralized by Karl Fischer reagent added automatically. The volume of the K. F. Reagent added is displayed on the backlit graphic display. End point of the titration is indicated by an audio signal. After blank titration, the reagent is standardized by adding known quantity of water. A built-in CAL program is used to determine the Average Factor of the K. F. reagent. After blank titration and the Factor determination, several samples can be tested one after the other.

The instrument calculates result automatically and displays on backlit graphic display. 'Solution Error' message displayed in case faulty solution are used. Built-in validation and calibration facility for dispensed volume provided.

FEATURES:

- Memory provision for storage of 24 Product names.
- 7 formulas are used to calculate the Factor and Result.
- 10 Operator names can be stored.
- Feather touch keyboard for selection stirrer speed.
- Facility to customize test reports with user company's name and instrument ID.
- Results in Percentage, PPM and mg. of H₂O.
- On line messages for user friendly operations.
- Error Messages to avoid wastage of chemicals.
- Built-in Volume validation & Calibration facility.
- Printout as per GLP requirements.

SPECIFICATIONS:

- Method: Volumetric Titrator.
- Measuring range: 100 PPM to 100 % with appropriate sample quantity.

- End point confirmation time: 20 sec.
- Fixed dispensing resolution: 0.01 ml.
- Vessel capacity: 200 ml (Optional 350 ml).
- Keyboard: 16 keys feather touch keyboard.
- MOC: SS cabinet.
- Printer Port: 25 Pin D type parallel port for
- Dot matrix printer.
- Dimensions: 40x35x30 cm Weight : 15 kg approx.
- Power supply: 230 Volt AC 50 Hz power 100 W max.
- Ambient condition: Temperature: 5 to 40 Deg C.
- Humidity: Less than 85 % RH.

ACCESSORIES:

Vessel, Platinum Electrode, Clamp, Rotor, Inlet and Outlet Tubes, Micro-liter Syringe, Instruction Manual.

APPLICATIONS:

- Pharmaceutical and Chemical industry.
- Petrochemical industry.
- Lubricating and Hydraulic oil users and manufacturers.
- Distilleries and Alcohol users and manufacturers.
- Food and Beverage industry.
- Polymer, Paint and Plastic industry.
- Textile auxiliaries and cosmetic industry.
- Fine chemicals.

VEEGO/MATIC – MD PC

This model is same as Model VEEGO/MATIC – MD with additional PC interface facility. This is useful to store the data on the PC and can be printed as and when required.

ADDITIONAL FEATURES:

RS 232 Interface for PC to download the data. 'SEARCH' and 'REPORT' facilities.

Recommended PC configuration:

Windows 2010 or above.

RS232 Serial com port to USB port converter, CD drive.

VEEGO/MATIC – MD + P

This model is same as Model VEEGO/MATIC – MD, supplied with 80 column dot matrix printer.

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DIGITAL AUTOMATIC KARL FISCHER TITRATION APPARATUS VEEGO/MATIC – D

Designed for Accurate Estimation of Moisture



Digital Display With Readability 0.01 ml

Automatic Operation Eliminates Human Error

Dispenser System Eliminates Piston, Burette & Control Valves

Uninterrupted Operation No Need To Refill The Burette

Volume Calibration To Calibrate Dispenser

Sturdy Construction Offers Maximum Protection For Circuitry



DIGITAL AUTOMATIC KARL FISCHER TITRATION APPARATUS

VEEGO/MATIC – D

This instrument is suitable for estimation of moisture in various Solid and Liquid samples. An Advanced Circuitry is incorporated to ensure accurate reproducible results. The titrator is equipped with a built-in magnetic stirrer with speed control and titration stand.

A Precision Dispenser is used to add Karl Fischer Reagent accurately. It eliminates need of piston type syringe pump, non return valves etc. The dispenser is very easy to clean and maintain, making the instrument most easy to operate.

The dispenser takes reagent directly from the reservoir and adds it into the titration cell. This minimizes handling of the hazardous and corrosive reagent. The volume of K. F. Reagent added is displayed on the digital display with readability 0.01 ml.

Once the reservoir is filled with 250-ml reagent, the samples can be tested without any interruption. The dispenser can be calibrated and validated, by built-In program.

End Point of the titration is indicated on the Display as well as by an audio signal. The display shows volume of Karl Fischer Reagent required to neutralize the moisture from the sample. Using a simple formula, moisture content in the sample can be easily calculated.

SPECIFICATIONS :

- Power Supply 230-Volt AC 50 Hz. 100W max.
- 2 line Back lit LCD Display.
- 4 Keys for Operating Functions.
- Dispensing Resolution 0.01 ml.
- Stirrer Built-in Magnetic.
- Weight 15-kg approx.
- Range of moisture Detection 100 PPM to 100%.
(With appropriate Sample Quantity)

STANDARD ACCESSORIES :

- Platinum Electrode 2 nos.
- Clamp for Beaker 1 no.
- Magnetic Stirring Rotor 1 no.
- Amber Color Reservoir 2 nos.
- Ground Glass Adapter. 2 nos.
- Moisture Beaker with ground edge. 1 no.
- Microliter Syringe Capacity 25ml. 1 no.

OPTIONAL ACCESSORIES :

Special Large Beaker Assembly for estimation of low moisture content.

APPLICATIONS :

The instrument is suitable for following Industries for moisture estimation:

- Pharmaceutical : Bulk Drug, Tablets, Capsules. Drug Intermediates etc.
- Chemical: Fine Chemicals, Dyes, Textile Auxiliaries, Soaps and Detergents etc.
- Paint and Ink: Solvents, Resins etc.
Agriculture: Tobacco, Food Grains, Coffee, Tea Spices etc.
- Food & Confectionery: Chocolate, Milk Products, Edible Oils, Fats etc.
- Plastic: Polymers, Adhesives, Granules etc.
- Cosmetic: Talc, Lotions, Creams, Toothpaste, etc.
- Petroleum: Furnace Oil, Transformer/Insulating Oil, Lube Oil etc.

Specifications and Design are subject to change.

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