



# EXPERTISE THROUGH EXPERIENCE



PROGRESSIVE INSTRUMENTS

**VEEGO** a trusted name in Chemical, Pharmaceutical, Petrochemical Industries for quality instruments. The company was established in the year 1976 to design and manufacture scientific analytical instruments for research development and quality control laboratories.

Main objective of the company is to cater requirement of local industries, offer them simple, compact, reliable and easy to operate instruments. Pioneering experience in the field of sophisticated instruments, a team of highly experienced instrumentation, electrical engineers, software professionals and chemists form a strong back bone of the company.

Strong technical support and excellent customer relationship contributed to quick growth. During these three decades 'VEEGO' products have gained good reputation for reliability, accuracy and simplicity.

'VEEGO' products are known to almost all industries in India. To promote overseas business, Progressive Instruments started exports of 'VEEGO' products. Over 35 years we pride ourselves as leading manufacturer of wide range of scientific instruments and equipment.

## OUR MISSION

To offer range of instruments having:

- Excellent Reliability
- Good Quality
- Ingenious Simplicity
- Competitive Price

## QUALITY ASSURANCE

Management experts, highly qualified and experienced professional staff are the strong support to quality management system.

Our dedicated team guarantee the performance of each and every instrument we manufacture.

## CUSTOMER CARE

We are committed to

- Understand Customer Requirements
- Offer Best Services
- On-Time Delivery
- Provide Technical Support

# VEEGO

## PRODUCTS OF PROGRESSIVE INSTRUMENTS

1. KARL FISCHER MOISTURE ANALYSER
2. POTENTIOMETRIC TITRATOR
3. MELTING POINT / BOILING POINT APPARATUS

# POTENTIOMETRIC TITRATOR

This instrument is designed for Potentiometric Titrations, performed in Pharmaceutical & Chemical industries. Suitable for Aqueous/ Non-aqueous titrations, Assay titrations, Acid Base, Oxidation / Reduction titrations and many other Potentiometric Titrations.



## APPLICATIONS OF POTENTIOMETRIC TITRATORS

- Assay determination in Pharma industry.
- Chloride, Bromide analysis in Dyes and Dye Intermediates.
- Total Acid/Base number as per ASTM methods in oils.
- Nitrite/Di-azotization titrations,
- Iodine number and Saponification number.
- Complexometric – EDTA titrations.
- Determination of Isocyanate groups.

All Instruments work on 230 Volts A.C. supply.  
Other Supply Voltage Available On Request.

### AUTO/POT – I

- Micro-controller based, easy to operate advanced automatic titrator.
- Reliable and accurate dispensing system for uninterrupted operations.
- PS2/QWERTY Key-Board interface for quick data entry.
- Informative graphic display for user friendly operations.
- Speed mode: Adjusts the speed of titration.
- Step volume mode: For routine titrations.
- Result units: Percentage Assay, TAN, TBN etc.
- Supports two methods for Normality: Standard Sample and Volumetric.
- Parallel port printer interface.

- Printouts formats as per GLP requirements.
- Method storage facility up to 100 methods of analysis.
- Pass-word protected data.
- RS 232 port for PC and Balance interface.
- Retrieval of data using Report and Search Facility.

### AUTO/POT-KF

Instrument same as Model AUTO/POT-I with following additional features for Karl Fischer Titrations:

- Drift Control: Automatic Drift Compensation.
- Results in Percentage, PPM and mg of H<sub>2</sub>O.
- Range of Moisture Detection: 50 PPM to 100% with appropriate sample size.

### AUTO/POT-pH/KF

Instrument same as Model AUTO/POT-KF with following additional features for pH Titrations:

- Combined instrument suitable for Potentiometric, Karl Fischer as well as pH Titrations.
- pH range 0 -14 pH Resolution 0.01 pH. 3 Point Calibration with T. C.
- Automatic and Manual Temperature Compensation.
- pH Calibration by Three Buffers.
- Titration Mode: Potentiometric, Karl Fischer and pH.

## MICROCONTROLLER BASED DIGITAL AUTOMATIC KARL FISCHER MOISTURE ANALYZER

Designed for accurate estimation of moisture in various Solid and Liquid samples.



## MICROCONTROLLER BASED DIGITAL AUTOMATIC KARL FISCHER MOISTURE ANALYZER

Designed for accurate estimation of moisture in various Solid and Liquid samples.



### VEEGO/MATIC-MD

- Volumetric Titrator.
- Easy to operate fully automatic Karl Fischer Titrator.
- Dispensing unit for uninterrupted operations.
- LCD display screen for user friendly operations.
- Built-in 'Volume Validation' Program.
- Parallel port printer interface.
- Result in Percentage, PPM and mg of H<sub>2</sub>O.
- Supports two methods for factor: Water and DST.
- Factor mode: Calculates Average Factor.
- Range: 100 PPM to 100% with appropriate sample size.

### VEEGO/MATIC – MD(PC)

This instrument is same as MODEL : VEEGO/MATIC-MD with additional features :

- RS 232 port for PC interface.
- Dedicated software to transfer data to the PC.
- Retrieval of DATA using Report and Search Facility.

### VEEGO/MATIC-EX

- Advanced Volumetric Titrator.
- Valveless Dispenser for uninterrupted operations.
- Informative graphic display for user friendly operations.
- Method storage facility upto 100 files.
- Automatic drift compensation.
- Password protected DATA.
- Supports two methods for factor: Water and DST.
- Results in Percent, PPM and mg of H<sub>2</sub>O.
- Range of Moisture Detection: 50 PPM to 100% with appropriate sample size.

- Printouts: Formats as per GLP requirements.
- Built-in 'Volume Validation' Program.
- PS2/QWERTY keyboard interface for Quick DATA entry.
- Parallel port printer interface.
- RS 232 port for PC and Balance interface.
- Dedicated software to transfer data to the PC.
- Retrieval of DATA using Report and Search Facility.

# KARL FISCHER MOISTURE ANALYZER

Designed for accurate estimation of traces of moisture contents of the sample by measuring amount of electrolysis current necessary to produce required iodine.



## VEEGO/MATIC-III

- Coulometric Titrator.
- This is an absolute technique that does not require calibration of reagents.
- Easy to operate.
- User friendly Alpha-Numeric display.
- Result in Percent, PPM and mg of H<sub>2</sub>O.
- Parallel port printer interface.
- Automatic drift compensation.

# APPLICATIONS OF KARL FISCHER TITRATOR

## VOLUMETRIC TITRATOR

- Pharmaceutical and Chemical industry.
- Food, Agriculture and Dairy products.
- Alcohol and other Distilleries.
- Fine chemicals.
- Textile Auxiliaries and Cosmetics.
- Transformer /Insulating / Lubricating Oils.
- Petroleum products like furnace oil, L.D.O. etc.
- Polymer, Paint and Plastic industry.

## COULOMETRIC TITRATOR

- Transformer / Insulating Oil users and manufacturers.
- Transformer manufacturers.
- Capacitor / PXE oil users and manufacturers.
- Lubricating / Hydraulic oil users and manufacturers.
- Power plants.
- Railways.
- Estimation of moisture from Aviation Fuel.
- Oil filtration plant manufacturers and service providers.

## FEATURES OF KARL FISCHER TITRATORS WE OFFER

Model Name	VEEGO/MATIC-MD	VEEGO/MATIC-MD(PC)	VEEGO/MATIC-EX	VEEGO/MATIC-III
<b>Titrator Type</b>	Volumetric	Volumetric	Volumetric	Coulometric
<b>Precision Dispenser Unit</b>	√	√	√	NA
<b>Readability</b>	0.01 ml	0.01 ml	0.01 ml	0.001 mg
<b>Display</b>	4 line LCD	4 line LCD	Graphic	4 line LCD
<b>Printer Interface</b>	√	√	√	√
<b>Printout as per GLP Format</b>	—	—	√	—
<b>PC Interface</b>	—	√	√	—
<b>PS2 Interface</b>	—	—	√	—
<b>Method Storage Facility</b>	—	—	100 Methods	—
<b>Common End Users</b>	R&D/QC Labs	R&D/QC Labs	R&D/QC Labs	Industries Where Minute Traces Of Moisture Is Estimated
<b>Specific Application</b>	Pharmaceutical, Chemical, Agriculture, Distilleries, Dairy, Fine Chemicals and Petroleum Industries			Transformer Insulation Industries
<b>Photography</b>				

## PROGRAMMABLE MICROCONTROLLER BASED

# MELTING POINT APPARATUS

Designed to determine Melting Point with high accuracy.



### VMP-CM

- Microcontroller based circuitry and tactile keyboard for programming.
- Program sets fast heating initially. Heating rate is adjusted automatically and precisely maintained near melting point.
- Equipped with colored monitor and camera for precise and accurate observations.
- The camera magnifies image of capillary and sample inside, so that minute physical changes can be observed at a time, in a group on the colored monitor
- User friendly 240 x 64 Graphic display.
- PS-2 /QWERTY key board for quick & easy data entry.

- 'Melting range of samples can also be determined accurately.
- Facility to test unknown sample.
- Suitable to determine boiling point of liquids.
- Built-in validation facility.
- Facility to store 99 product names with their expected melting point and 25 product names with expected boiling point and 100 test records.

### VMP-PM

This model is same as VMP-CM, without colored monitor and camera.

**PROGRAMMABLE  
MICROCONTROLLER  
BASED**

# MELTING POINT APPARATUS



# PRECISION DIGITAL MELTING POINT APPARATUS



## VMP-AD

This instrument is advanced version of Model VMP-CM equipped with graphic display with following additional features:

- Simple instructions and messages on 240 x 128 graphic display.
- PS-2/ QWERTY key board for quick & easy data entry.
- Facility to select Melting Point of 3 samples at a time or Boiling Point of one sample.
- Memory provision for storage of 99 Product names with their expected Melting Point and 25 product names with expected boiling point and 100 test records.
- 8 Operator names can be stored.
- Different levels of password protection.

- On line/Off line print facility.
- Selection of stirrer speed through keyboard.
- Time V/S Temperature graphical representation.
- Temperature range : 2 °C above room temperature upto 300° C.
- Readability 0.1 ° C.

## VMP-DS




- Suitable for accurate determination of melting point or boiling point of liquids.
- Compact design with digital display of temperature.
- Rate of heating can be adjusted precisely by electronic controller.
- Silicone oil bath with built-in magnetic stirrer and sensitive temperature sensor.
- Glare free illuminator and large magnifier for strain-free observations.
- Temperature range : 2 °C above room temperature upto 300° C.
- Temperature readability 0,1° C.

## VMP-D

This model is same as model : VMP-DS.

- Temperature readability 1° C.
- Accessories of Model VMP-PM, VMP-CM, VMP-AD VMP-D and VMP-DS :
- Specially designed glass beaker (250ml)
  - Teflon flat-grooved cover for glass beaker fitted with immersion heater with holes for MP & BP glass-tubes.
  - Temperature sensor( PT-100)
  - Magnetic rotor-needle.
  - Special type Silicon Oil 200 ml.
  - One-end sealed melting point glass-capillaries.
  - Boiling point tubes.

## FEATURES OF MELTING POINT APPARATUS

Model Name	VMP-D /VMP-DS	VMP-CM	VMP-PM	VMP-AD
Silicon Oil Heating Bath	√	√	√	√
Suitable For Melting / Boiling Point	√	√	√	√
Suitable For Melting Range	—	√	√	√
Readability degree C	1/0.1	0.1	0.1	0.1
Programmable	—	√	√	√
Colored Monitor	—	√	—	√
Self Validation Facility	—	√	√	√
Automated Heating Rate	—	√	√	√
USP Compatible	—	√	√	√
Printer Interface	—	√	√	√
Memory For Storage Of Test Results	—	√	√	√
Password Protection	—	√	√	√
Time vs Temperature Graphic Representations	—	—	—	√
Photograph				

## OUR ESTEEMED CUSTOMERS

AARTI DRUGS • AJANTA PHARMA • BDH INDUSTRIES  
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 HERDILLIA CHEMICALS • HINDUSTAN DORR-OLIVER  
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 JSW STEEL • LANCO POWER • MSEB • SIEMENS • TAMIL  
 NADU ELECTRICITY • TATA MOTORS • TATA COFFEE



## **The Other Range Of Products We Offer:**

**Tablet Dissolution Tester**

**Tablet Disintegration Tester**

**Tablet Friability Tester**

**Tablet Hardness Tester**

**Tap/Bulk Density Tester**

**Leak Test Apparatus**

### **PROGRESSIVE INSTRUMENTS**

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