



*World Class
Solution to
Titration
Applications*

Agile

Potentiometric
Titrator

Specifications

Principle	Volume determination by equivalence point, end point
Control	Advanced ARM-11 based SOC
End Point Detection	Potentiometric / Voltametric
Results Units	Conc. %w/w, %w/v, ppm, g/L, mg/L, TAN / TBN (mg KOH/g). Universal user defined unit
Calculations by	Selected EP, Largest EP, last EP, EP within specified ml / mV window
Report Format	Single report with graph & signature
Report Storage	100 document reports can be stored.
Cut-off criteria	(1) Volume (2) End Point (3) mV/pH
Mode of Titrations	Blank, Normality, Sample
Methods	FED, SVD, ASD
Method Storage	100 user methods can be stored with more than 20 parameters per method.
Stirrer System	High speed vortex stirrer with digital display
Stir time	Selectable for any desired time
Sensors	Electrodes of various types
Calibration	5 point for pH, 5 point for ISE, 2 point for ORP
Burette Resolution	0.001 ml/step, with interchangeable burettes
Filling time	< 20 sec.
mV range	±3200.00 mV
Resolution	0.01 mV (0.001 pH)
Statistics	Mean value, SD, RSD & Linearity (online & offline calculation)
Input impedance	10 ¹² Ω
Polarizing current	2,5,10 micro amps
Keys & Display	7" TFT Touch screen display.
Mouse Connectivity	Optional
Peripheral Interface	USB (3), Rs232, Balance Interface, Parallel Printer, PC connectivity through Ethernet.
Power	230 V AC + 10%, 50 Hz
Environmental Requirement	Operation : Indoor, Temperature : ambient to 45°C, Humidity: 5 to 90% non-condensing
Dimension	30 cm x 28cm x 17cm
Measuring accuracy	±0.01pH
pH range	0 to 14 pH
Data Transfer	Data from the Instrument can be transferred using a USB or through LAN – Directly to PC.
Measuring range	10 ppm to 100%
Data Storage	100 Methods & 10 Reports can be stored directly in the system

Standards & Compliances

- CE Marking
- GLP Compliance
- Calibration Tracability
- CFR Compliance
- IEC, ASTM, APHA, Pharmacopeia
- Documentation DQ, IQ, OQ & PQ

Typical Applications

The titrator can be used in many fields for several applications. some of them are mentioned here

Pharmaceuticals And Bio-Chemistry

Enzyme Reactivity, Ketoconazole, Zinc Sulphate Titration

Environment and Water Pollution

P & M Alkalinity, Chloride Content, Ca & Mg Hardness.
COD Titration Alkalinity as CaCO₃, Acid and Base capacity of water
Permanganate Index Lime content, Chloride content in Soil

Chemical Industries

Evaluation of Gold Number. Amine value of Silicon oil Sodium Chloride, Soda Lye, Sulphuric Acid Titrations Nitrogen content of Nitro cellulose
Cationic surfactant Titrations Soaps and Anionic surfactant in washing powder Soap content in Soap Noodles

Dyes And Paints

Sulphate Analysis, Acidity of Dye

Petrochemical Industries

Total & Free Chlorine in Furnace Oil Saponification value of oil TAN/TBN as per ASTM. Mercaptan Sulfur Bromine Index And Bromine Number
Iodine Value Titration Hydroxyl number (HN) as per ASTM E 1899-08 and DIN 53240-2

Food & Beverages

All titration are possible using different electrodes. Acid Base, Argentometric, Redox, Precipitation, Complexometric. Typical application includes Mono Sodium Glutamate Titrations Vitamin C Titration
Salt content in Food and Fortified products Ferric Pyrophosphate Titration Acidity of Jam & Jelly Iodine content in salt.

Dairy Industries

Acidity of Milk, Chakka, Curd, Cheese & Shrikhand Free Fatty Acid

Distilleries

Acidity of Rectified Spirit, Alcohol Purity

Cosmetics

Chloride Content in Shampoo, pH

Iron & Steel Industries

Acidity of sand used in castings
Typical Applications

(Accessories shown may not be part of standard equipment)

(Due to continuous R & D, the specification & Dimensions subject to modification.)

POTENTIOMETRIC TITRATOR WITH KF TITRATION CAPABILITY

Accurate. Reliable. Versatile

PRODUCT OVERVIEW

The Agile Potentiometric Titrator can also be used with Karl Fischer Titration functionality, fully-automated titration system designed to deliver accurate and reproducible results for moisture content and a wide range of chemical analyses. It supports all Titrations aqueous and non-aqueous titrations and various other Potentiometric Titrations, along with volumetric Karl Fischer (KF) methods. Works with all volume burette 5 ml 10 ml 15 ml 20 ml 25 ml or 50 ml

Ideal for pharmaceuticals, food, petrochemicals, and research labs, this titrator simplifies complex analysis with intuitive software, intelligent burette management, and precise endpoint detection.

Facility to attach circulating water bath 1 Deg C to 80 Deg C for titrations at elevated or Lower temperatures like Diazo Titration.



TECHNICAL SPECIFICATIONS

Mode of Titrations Blank, Normality, Sample

Stirrer System : Magnetic stirrer with digital display

Stir Time : Selectable for any desired time

Sensor : Dual platinum electrode

Result Units : %/w, %w/v, ppm, mg/ml

Burette : 20 ml interchangeable

Burette Resolution : 1/20000 steps or 0.001 ml/step

Filling Time : < 20 sec

KFT Attachment Set :

Smart Interchangeable Burette	1 No
Dual Platinum Electrode	1 No
Magnetic Stirrer with Stand	1 No
KF Vessel (150 ml)	1 No
KF Software (In Built)	1 No



SPECTRALAB INSTRUMENTS PVT. LTD.

EL22/24 ,T.T.C., Electronic Zone , M.I.D.C, Mahape,
Navi Mumbai -400 710, India



91-22- 62556868 (Up to 100 Lines)



sales@spectralab.biz



www.spectralab.biz