



PT - 3011 Potentiometric Titrator



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



>> SPECIFICATIONS

Principle	:	Volume determination by equivalence point, end point
Control	:	Advanced ARM-11 based SOC
End Point Detection	י ו:	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	:	1/20000, 1/10000, 1/5000 of burette volume (or 0.001ml for all
		burettes)
Filling time	:	< 20 sec.
mV range	:	± 3200.00 mV
Resolution	:	0.01 mV (0.001 pH)
Statistics	:	Mean value, SD, RSD & Linearity (online & offine calculation)
Input impedance	:	10 ¹² Ω
Polarizing current	:	2,5,10 micro amps
Keys & Display	:	7" TFT
Mouse Connectivity	y:	Optional
Peripheral Interface	e:	USB (3), Rs232, Balance Interface, Parallel Printer, PC connectivity
		through Ethernet.
Power	:	230 V AC ± 10%, 50 Hz
Environmental	:	Operation : Indoor, Temperature : ambient to 45°C, Humidity: 5 to 90%
		non-condensing
Dimensions	:	30 cm x 28cm x 17cm

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>> 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

INVIRONMENT 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

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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



>> OOD & BEVERAGES

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

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DISTILLERIES

Acidity of Rectified Spirit, Alcohol Purity

>> COSMETICS

Chloride Content in Shampoo, pH

IRON & STEEL INDUSTRIES

Acidity of sand used in castings



pH Calibration Up to 5 point

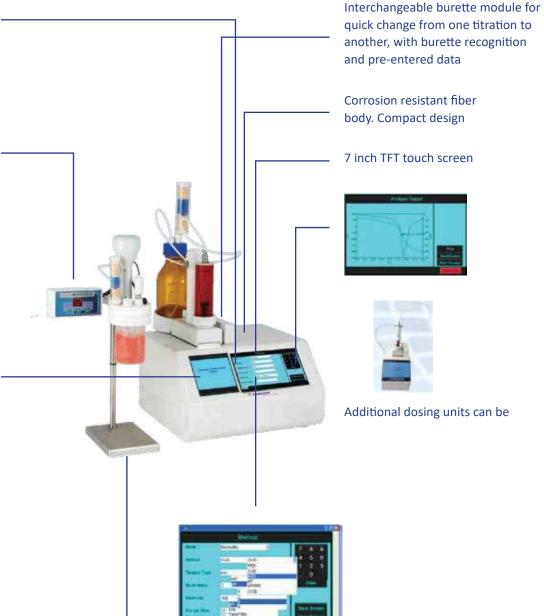


Digital Stirrer



Three formulae in Normality and seven formulae in sample mode. Facility to create & save user defined formulae

Result Units: Conc. %w/w, %w/v, ppm, g/L, mg/L, TAN /TBN (mg KOH/g). Universal user defined



Aesthetically designed titration



Ethernet computer port

Model Agile can work as "Stand alone" or through PC



If PC is to be used only for data transfer CFR 21 Part 11 compliant software is available. If instrument is to be operated through PC, software available, which is also CFR 21 part 11 compliant.



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>> ORDERING INFORMATION

Modular Design : Choose the configuration of your choice	Agile non PC operated	Agile PC operated	
Description	Electronics unit + software for Potentiometric titrator + Built in dosing unit + Vessel stand & stirrer assembly + electrode of your choice	Electronics unit + software for Potentiometric titrator & PC through operation. + Built in dosing unit + Vessel stand & stirrer assembly + electrode of your choice	
CFR 21 Part II software	Order if required	Included	
Additional Interchangeable Burette Assemblies (with auto burette recognition facility) consisting of : Syringe & piston assembly, Fill / Eject selection valve & associated tubing, position sensors for auto detection.	Order the quantities as per your requirement	Order the quantities as per your requirement	
Additional dosing units consisting of : Interchangeable burette assembly, stepper motor burette, valve & driver card	Order the quantities as per your requirement (Max. 3 units)	Order the quantities as per your requirement (Max. 3 units)	
KF attachment consisting of : Interchangeable Burette, Dual Platinum Electrode, 50 μl syringe, Magnetic Stirrer,KF Vessel (150 ml), KF Software	Order if required	Order if required	

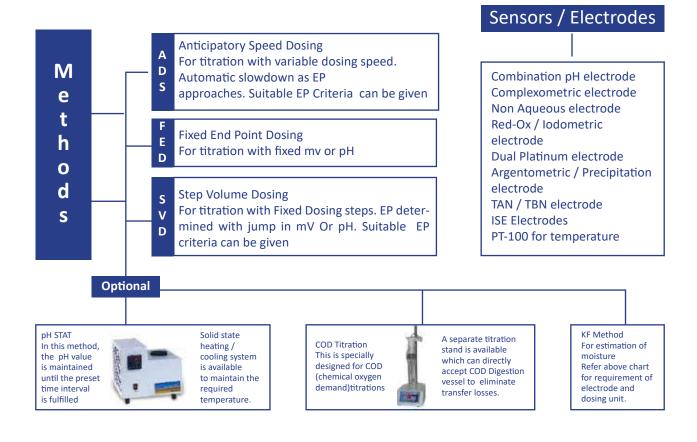
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Model Agile can also be expanded to applications for (Necessary software, electrode & accessories to be ordered.)

Enzymatic Titrations (pH Stat) COD Titrations Titration with ION selective electrodes







HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost. Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's Trainings. AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps.detector etc. on Rent.





About Analytical Technologies

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Our Products & Technologies







Optical Emission Spectrophotometer

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CLIA





DSC/TGA

NOVA-2100

Chemistry Analyzer



3007



Chemistry Analyzer



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HEMA 2062 Hematology







Liquid Partical Counter



Total Organic Carbon 3800





Laser Particle Size Analyzer

Ion Chromatograph

Water purification system



Semi Auto Bio









Spectrophotometer



URINOVA 2800 Urine Analyzer







RTPCR



PCR/Gradient PCR/

TOC Analyzer



Micro Plate Reader/Washer

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



1.Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.





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