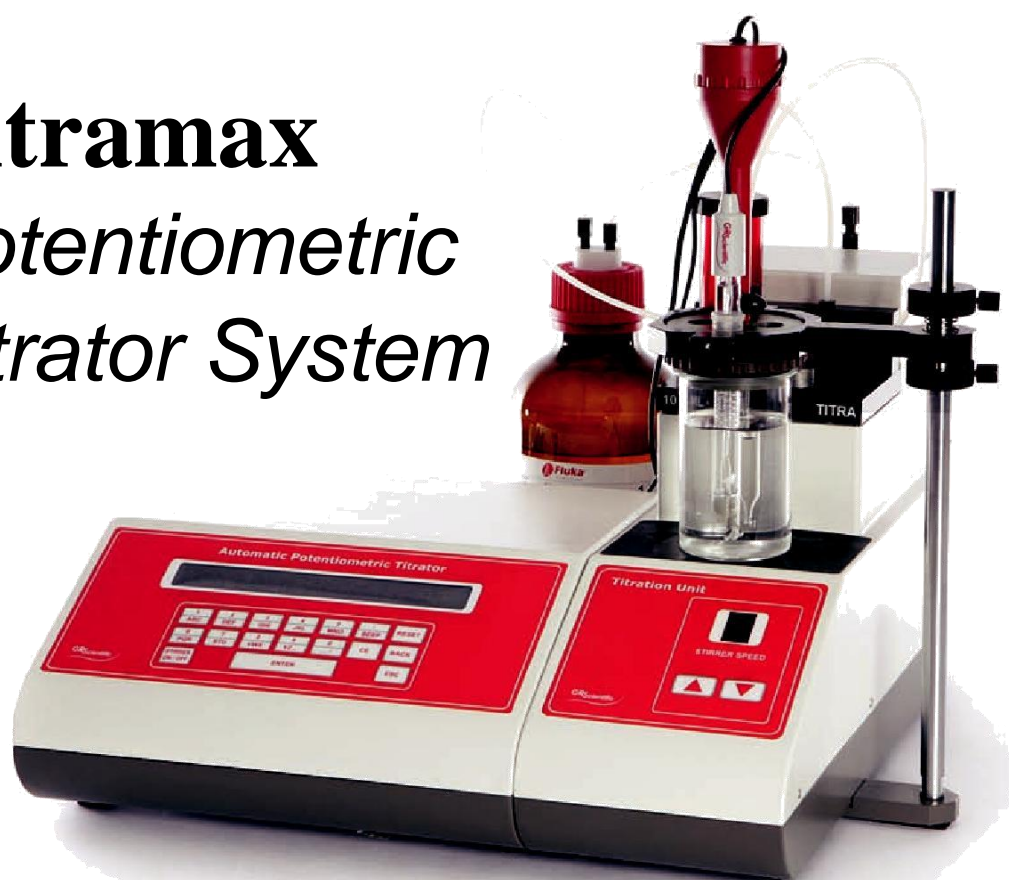


Conforms to ASTM/EN/ISO Standards

Titramax Potentiometric Titrator System



*A Truly Simple and reliable yet versatile
potentiometer for all petrochemical applications*

Titramax Features

- User friendly auto titration system.
- Dynamic (DET) and monotomic (MET) equivalence point titrations.
- Compliant with ASTM methods for TAN/TBN and mercaptan sulphur.
- Interchangeable burette assemblies with intelligent volume recognition system.
- Vortex mixing system for vigorous and homogeneous stirring of viscous samples.
- Alphanumeric entry of all method parameters and sample data that ensures GLP compliance.
- Pre-programmed ASTM methods for easy operation.
- Two tier password protection, administrator and user, for method editing.
- User selectable report formats - Titration analysis reports, method parameters, data table, titration curves, etc..
- Full reprocessing and statistical analysis of run data including first and second derivative graphical report.
- Balance interface for weight data transfer.
- Data download to PC.
- Full printout facility for titration report, analysis graph and derivative calculation.
- Easy to use keypad with function guide display.



Specially Designed Electrodes

GR Scientific offer a range of specifically designed combined pH/reference electrodes for non- aqueous matrices that are:

- Easy to clean with even the most viscous crudes
- Rapid response in organic solvents
- Electrically shielded
- UK manufactured for uncompromised quality.

If you have a specific electrode specification we will do everything we can to meet your needs. Please contact our technical team to discuss your requirements.



Save time and no more handling of harmful solvents!

GR Scientific have produced a premixed TAN Titration solvent that conforms to ASTM D664 using high purity reagent grade chemicals. Hassle free preparation!

Available in 1L and 2.5L bottles.

Why not add in a bottle top dispenser for easy dispensing of the titration solvent.

Technical Specifications

Modes of operation: Dynamic and Equilibrium Controlled

Control: Microcontroller based. mV

range: +/- 3200

Accuracy: +/- 0.1mV

Amplifier impedance: > 10¹² ohms.

Burette resolution: 1/5000 for 5ml, 1/10000 for 10ml, 25/5000 for 25ml.

Filling time: < 20 seconds

Keyboard: Alphanumeric splashproof polyester soft keys.

Display: 40 x 2 backlit LCD

Titration Head: Manual stand with swivelling arm.

Stirrer system: Microcontroller based variable speed, high torque vortex mixer.

Cut off criteria: Choice of Volume or End point.

Applications: Pre-programmed ASTM methods

Report format: Multi choice including method parameters, titration graph and 1st/2nd derivatives.

Printer connection: Parallel port.

Balance connection: Serial interface & RS232C

Power: 90-264VAC, 47-63Hz.



Ordering Information

Part No.	Product
93000	Titra-Max Titration System, complete
Supplied accessories (also available as spare items)	
503006	Vortex Mixer
302205	PTFE Stirrer paddle
503010	10ml Burette assembly complete, with tubing connectors (with tubing, connectors, stand, syringe, valve & connector pin)
503014	10ml syringe
503015	Syringe shell, red acrylic sleeve
302203	PTFE dispensing tube & diffuser tip
503013	Moisture filter with tube connector
503011	Bottle Cap Assembly
301802	Reaction vessel, 150ml
503118	5 Port Electrode Holder – red
503007	Electrode Arm Holder Assembly
503104	Double Junction Ag/Ag-Cl combined electrode
503105	Double Junction Silver Billet Electrode
401511	Plug-in power supply, 90-264 VCA, 24 V DC
503003	Moulded cable 25 pin D M/F
101006	Results Manager interface cable - RS232
101007	Results Manager USB/RS232 adapter

Optional Accessories

Part No.	Product
503101	Bottle Top Dispenser 5-60ml
61-TAN-02	1 x 100ml TAN 2 Standard
61-TAN-05	1 x 100ml TAN 5 Standard
61-TBN-02	1 x 100ml TBN 2 Standard
61-TBN-05	1 x 100ml TBN 5 Standard
61-TBN-10	1 x 100ml TBN 10 Standard
61-RSH1C	Mercaptan 40 mg/L Standard 25ml bottle
61-EFSLIET	100ml TAN/TBN 1M LiCl Electrode Filling Solution
61-EFSKNO	100 ml 10% Potassium Nitrate Electrode Filling Solution
61-EFS3AC	100ml 3M KCl/AgCl Electrode filling solution
61-EFSNACLO4	100ml Saturated NaClO4 in Glacial Acetic Acid electrode filling solution
61-1040525	500ml Buffer Solution pH 4
61-1070525	500ml Buffer Solution pH 7
61-1090525	500ml Buffer Solution pH 9
61-1100525	500ml Buffer Solution pH 10
61-1110525	500ml Buffer Solution pH 11
61-EFS3AC	100ml pH Electrode Filling Solution
61-ECS	500ml pH Electrode cleaning Solution
61-ESS5	500ml pH Electrode storage Solution
61-KOH01F	0.1M KOH/2-Propanol
61-TANSOLVF	1 Litre TAN titration solvent (pre-mixed)
61-TANSOLVFW	2.5 Litre TAN titration solvent (pre-mixed)