



RIKI GLOBAL
performance through innovation

Auto Potentiometric Titrator

APPLICATIONS:



Food & Beverage



Wine & Distillery



Sensors & Syringe



Steel Industry



Wine & Distillery



Agriculture & Mining Industry



Environment & Water Testing



Petrochemicals Industry



Pharmaceuticals & Biochemistry



Chemical Industry



Paint Industry



PYRO provides different modes of titration

Normal analysis (SVD, FED): in this mode the titrator doses fixed amount at fixed intervals till endpoint is determined or end dosing limit is reached

Feedback analysis (ASD): this mode is synonymous to PID action where the pyro software ensures equilibrium sensing the changing pattern of titration trend by evaluating the end point and compensating accordingly through fast response

Dictionary of possible titrations: (Non-aqueous, Aqueous, redox, argentometric, complexometric, Karl Fisher)

Pyro software provides a sophisticated report generation process with ease of reading.

Detailed report with every aspect of titration is divided into Result, Parameter, Document, Data report (mL, versus mV), Graph

Online graph can be viewed during titration. Statistics report Average, RSD, Linearity simultaneously.

PYRO DATA SYSTEM (PDS)

The CFR S/W adds a whole new paradigm to the auto titrator, they are as follows:

1. Audit trail for every activity performed by user can be viewed anytime
2. Search with filtering options to print out events in detail
3. Filtered search audit trial reports print out can be taken
4. Multi level roles with password protection
5. Configurable password expiry and password lock facility
6. Configurable privileges
7. Print out over network through LAN removes the need to add a dedicated printer
8. Auto archive and data backup
9. Remote instrument access from desktop
10. DQ, IQ, OQ, PQ documents availability

FEATURES

1. Touch screen with intuitive GUI for easy understanding of workflow
2. Password protection against invalid user access
3. Burette recognition facility
4. Large storage capacity for report storage
5. Reports are stored into system and can be viewed even after reboot
6. RSD, LINEARITY, AVERAGE can be generated and stored and viewed anytime later
7. Customised formula can be created and used in titration to generate results
8. Titration number auto increment and auxillary parameter for company information and sample data can be entered for titrations run can be viewed in titration reports
9. All reports generated can be viewed, printed or transferred to external storage drive
10. Balance data can be directly transferred to the instrument during titration through USB port
11. Online graph to view the titration trend

SPECIFICATIONS

| Principle | Volume determination by equivalent end point |
|-------------------------|---|
| mV range | +2500 mV |
| Accuracy | +/- 0.01 mV |
| Input Impedance | 10 ¹² ohms |
| Burette resolution | 1 micro litre |
| Filling time | Max 30 secs |
| Sensors | 1. Potentiometric (pH, Redox, Aqueous, Non-Aqueous, Complexometric electrodes, Argentometric, ISE) 2. RSolv Electrodes (Voltametric) 3. Temperature sensor electrodes |
| Power | Single Phase - 230 V AC 50 HZ |
| Stirrer | Separate stirrer with touchscreen based speed control |
| Display | 7 inch capacitive touchscreen |
| Calibration | 5 point Calibration (any) |
| Report & Method Storage | 1000 reports and methods |
| Technology | ARM Cortex SOC with MIPS |
| Cut-off criteria | Volume, Endpoint |
| Communication Interface | Modbus (Integra Software for multiple Instrument, Data Collection with 21 CFR Part 11 compliance), Ethernet/WIFI (PC Connectivity, Printer over intra-network), USB for Report Transfer to External Drives, Printer Interface |
| End point detection | Potentiometric, Voltametric |
| Reports | Analysis Reports (Result, Parameters, Graph), Statistic Reports (RSD, AVERAGE, LINEARITY) |
| Operating conditions | Indoor, Ambient Temperature 45°C, Humidity 5 to 90% non-condensing |
| Result units | Conc, %w/w, %w/v, PPM, g/L, mg/L, TAN/TBN, Assay on dry basis |
| Methods | SVD, ASD, FED |
| Titration mode | Blank, Sample, Normality, Titration |
| EP detect by | Largest, Last, Selected EP |