



GBB SCIENTIFIC INSTRUMENTS PVT. L1

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21 CFR Part 11 Compliance Software

Complete Audit Trail of Activities according to US-FDA 21 CFR Part 11 compliance software

Search with filtering options to point out events in detail

Audit trial reports print out can be taken

Multi-level password with combination of alpha-numeric and symbols

Configurable Password expiry and Password lock facility

Configurable Privileges according to user hierarchy

Reports are generated in PDF format which can then be digitally signed

Watermark on every report

Print out over network through LAN removes the need to add a dedicated printer

View / Generate RSD, Average, Linearity reports while Titration is in progress

Complete instrument control from Desktop computer

DQ, IQ, OQ, PQ documents availability

Unlimited Reports storage and Method Storage

Report viewing and creation while Titration is in progress

Document report with attached Graph showing endpoint

Customized client logo attachment to reports.

Set Date and Time for Auto-Backup and Auto-Archiving of reports to local or remote locations

Software Auto Lock on idle or unattended screen

Access to Titrator over Intra LAN Connection

- Touch screen with intuitive GUI for easy understanding of workflow
- Password protection against invalid user access
- Burette Recognition Facility
- Large storage capacity for report storage
- Reports are stored into system and can be viewed even after reboot
- All reports generated can be viewed, printed or transferred to external storage drive
- Online graph to view the titration trend

- RSD, LINEARITY, AVERAGE can be generated and stored and viewed anytime later
- Customised Formula can be created & used in titration to generate results
- Titration Numbers Auto increment & Auxiliary parameter for Company information & Sample Data can be entered for Titrations run can be viewed in titration reports
- Balance Interface can be available during titration through USB Port

Principle	Volume determination by equivalent end point	Display	7 inch Capacitive Touch Screen
mV range	± 2500mV	Calibration	5 point calibration (pH, ISE) 2 point calibration (ORP)
Accuracy	± 0.01mV	Stirrer	Separate Stirrer with Touch Screen based Speed Control.
Input Impedance	10 ¹² ohms	Technology	ARM Cortex SOC with MIPS
Burette Resolution	1 micro litre (1 uL)	Cut-Off Criteria	Volume, End Point, mV/pH
Sensors	 Potentiometric (pH, Redox, Aqueous, Non-Aqueous, Complexometric, Argentometric, ISE, Electrodes) Temperature Sensor. Karl Fischer Electrode 	Communication Interface	Ethernet (Datahive S/W for Data Collection with 21 CFR Part 11 Compliance), Ethernet/WI/FI (PC connectivity, printer over intra network), USB for report transfer to external drive, printer interface.
Filling Time	Max. 30 secs.	Printer	Any LAN or USB printer (Laser Printer, Deskjet Printer of all brands)
Result Unit	Conc., % w/w, % w/v, g/L, mg/L, TAN/TBN, Purity, PPM, %	Operating Condition	Indoor, Ambient Temperature 45°C, Humidity 5 to 90% non-conditioning
Method	Step Volume Dosing (SVD), Anticipatory Step Dosing (ASD), Fixed End Point Dosing (FED) & Karl Fischer (KF)	End Point Detection	Largest, Last, Selected Ep
Titration mode	Blank, Sample, Normality & Titer	Reports & Method Storage	1000 Reports & Method with Standalone unit.
Report	Analysis Report (Result, Parameter, Document, mL/mV, Graph) Statistic Report (Average, RSD, Linearity) Calibration Report (pH, ORP, ISE)	End Point Detection	Potentiometric, Voltametric

Applications



Food & Beverage



Wine & Distillery



Steel Industry



Cosmetics



Agriculture & Mining Industry



Environment & Water Testing



Petrochemical Industries



Pharmaceuticals & Biochemistry



Chemical Industry



Paint Industry

Accessories



Sensors and Syringe







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IRIS Provides
Different modes
of Titration



K. F. is a titration process used to calculate the moisture % of sample using a known standard. IRIS Software Provides a Sophisticated Report generation process with ease of reading.

Detailed Reports with every aspect of titration is divided into Result, Parameter, Document, Statistic reports Average, RSD.

Features

- > Touch screen with intuitive GUI for easy understanding of workflow.
- > Password protection against invalid user access.
- > Burette Recognition Facility.
- > Large storage capacity for report storage.
- > Reports are stored into system and can be viewed even after reboot.
- > RSD, AVERAGE can be generated and stored and viewed anytime later.
- > Customised Formula can be created and used in titration to generate results.
- > 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.
- > All reports generated can be viewed, printed or transferred to external storage drive.
- > Balance data can be directly transferred to the instrument during titraton through USB port.

IRIS Auto-Titrator is 21 CFR Part 11 Compliant

IRIS Data System (IDS)

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 point 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.

Specifications

Principle	Volume determination by equivalent end point	
mV range	+ 2500mV	
Accuracy	+/- 0.01mV	
Input Impedance	10 ¹² ohms	
Burette Resolution	1 micro litre	
Filling Time	Max 30 secs	
Sensors	Karl Fischer Electrodes (Voltametric)	
Power	Single Phase - 230 V AC 50 Hz	
Stirrer	Separate Stirrer with Touchscreen based Speed Control	
Display	7 inch Capacitive Touchscreen	
Report & Method Storage	1000 Reports & 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	Voltametric	
Reports	Analysis Reports (Result, Parameters), Statistic Reports (RSD, AVERAGE)	
Operating Conditions	Indoor, Ambient Temperature 45°C, Humidity 5 to 90% non-condensing	
Result Units	PPM, %	
Titration mode	Blank, Sample, Titer (Karl Fischer)	

Applications



Food & Beverage



Wine & Distillery



Steel Industry



Cosmetics



Agriculture & Mining Industry



Environment & Water Testing



Petrochemical Industries



Pharmaceuticals & Biochemistry



Chemical Industry



Paint Industry

Accessories



Sensors and Syringe

