

KFT - 3100

Karl Fischer Titrator



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

Supplied with 250ml Reaction Vessel, Dual Platinum Combined Electrode, Teflon Paddle, Teflon Assembly, Moisture Trap (02 Nos.), 250ml Amber Reservoir Bottle, Dispensing Tube (02 Nos.), Micro tip (02 Nos.) Teflon Tube for Dispensing Path, Power Cord, USB Inter face Cable, Operational & Instruction Manual.

►► Technical Specification:

Method of Detection	Conductometric / Volumetric
Range of Moisture Detection	Better than 50 ppm to 100% (depends upon type of sample)
Dispensing Resolution	0.001ml
Magnetic Stirrer	Built-in with soft touch Key speed controller
Calibration	Average factor can be calculated by 1) Water by volume 2) Water by weigh 3) By DST
Method	40 with Three pre-assigned methods 1) Liquid by volume 2) Liquid by weight 3) For Solid sample Method No. 4-40 are customized with View, Print & Delete facility.
Auto Neutralization	On / Off - users selectable - reduces the time between analysis & gives accurate results
Stirring Time	00:00 to 99:00 (mm:ss) – users adjustable
End Point Sensitivity	80-100 - users adjustable
End Point Time	1-20 seconds - users adjustable
End Point mV	1000-3000 mV - users adjustable
End Point Detection	By Audio & Visual Alarm
Calibration Reminder Alarm	0-99 Hours
Over titration Alarm	Audio / Visual Alarm at 15 ml to save KF Reagent
Display of Reading	Moisture in ppm, percentage (%), mg/ml of water, gm/L, Mol/L
Auto Drain	For cleaning reaction vessel - useful for large & multiple volume sample
Flush	For cleaning dispensing path
Calculation of % RSD	Possible
Average KF Factor Calculation	Automatic - Maximum 5 factor can be stored in memory.
Weight Entry	In Resolution of 0.1 mg / 0.01 mg - users selectable

Weight Transfer	Possible through RS-232 Port (From Balance to KFT)
Balance Interface	Yes, with RS-232 Port
Dispenser Calibration/Validation	Onsite by user
Dispenser MOC	SS-316L & Teflon for Corrosion Protection & Maintenance Free Operation
Dispenser type	Motorized - For accurate measurement
Teflon Tube	To transfer KF reagent from KF reagent bottle to dispenser & dispenser to reaction vessel
Material of Construction	Epoxy Based Powder Coated Metallic Body / GMP Enclosure made up of Stainless Steel
Type of Electrode	Dual Platinum - Combined Type
Input	Electrode with Banana Connector
Error Messages	"Over KF", "KF Factor Error", "Max. Factor Reached" & "Low Memory"
Short Link	Provided to diagnose the problem either with Instrument OR Electrode
Display	20 x 4 Line Alphanumeric Backlit LCD
Keypad	Membrane waterproof polycarbonate soft touch keypad compliance to UL/ROHS
Calibration Data Storage	Non-Volatile Memory which can store, print & view calibration date & time, calibration method, calibration done by, stirring time, average KF factor, % RSD, instrument serial number, instrument ID etc.
Analysis Data Storage	More than 1500 analysis data, with corresponding calibration data company name, analysis date & time, record number, batch / ID number, sample name, username, sample type and method, sample volume (ml / mg), sample density (for liquid sample), stirring time, end point time, end point in ml, moisture result in %, ppm & H ₂ O (mg / ml), analysis done on, instrument serial number, instrument ID etc. Secondly, analysis data can be print online.
Searching of data	With record number, batch number/ID, date, date range and by scrolling.

Report Formation	As per GLP Compliance
21 CFR Part-11 Compliance	<ul style="list-style-type: none"> • In-built with system for ease of operation without PC. • 2 Admin, 10 Reviewers, 40 Users & 1 Manufacturer with individual Login ID & Passcode. • Audit trail can store more than 5000 lines in instrument. • Audit trail includes action taken, date & time, action taken by whom. • Audit trail can be transfer to PC through software and can print on 40 / 80 column dot matrix printer for record. • Admins can set up operation permission of each Users & Reviewers. • Strict Admins control to audit and monitor usage and access. • Audit trail record can be printed with Date, Date Range and by individual User's ID. • Once Audit trail transfer to the PC or Printer, system will delete Audit trail records and before final deletion, the system will give warning twice. • Data integrity with database capability to store Analysis Data, Calibration Data, Analysis Method Data, Audit trail and Passcode in instrument. • No direct access to data from outside the instrument, thereby creating a closed system. • Audit traceability to ensure that the device and results are appropriately handled. • Auto User's logout after defined Logout time. • Auto Users & Reviewers block when password is entered incorrectly 3 consecutive times.
Printer Inter face	Centronics Parallel Port / Serial (RS-232 C) Port
Printer	40 / 80 Column Dot Matrix Printer (Printer must procure optionally)
PC Inter face	USB Type - B
PC Connectivity	By USB Inter face Cable with Driver, software to transfer Analysis data in GLP format, Calibration data and Audit trail from Instrument to PC in non-editable format (Cannot be Deleted)
Power Supply	230VAC \pm 10%, 50 Hz

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 Maintenance 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, trouble-shooting.

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

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
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PCR/Gradient PCR/
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TOC
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Laser Particle
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Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

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



Analytical
Foundation

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 personalities 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 DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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