

One Click[®] Water Determination Simple and Secure



Solvent Control

Solvent Control monitors three different parameters and replaces the solvent when necessary with just One Click, or even automatically. The Solvent Manager also empties, fills or replaces the solvent when required, ensuring the titration cell is kept in a good condition.



InMotion KF Oven Autosamplers

Modern and extremely compact, the new InMotion KF Oven Autosamplers allows up to 26 samples to be placed on a rack of only 25 centimeters. The Temperature Scan functionality speeds up the analysis of unknown samples by determining, in just one single run, the optimum temperature for heating the sample.



User Management

All users have their own homescreen with shortcuts for a One Click start of any task. Users can exclusively run their own shortcuts to perform routine tasks, but cannot accidentally change anything e.g. in the setup. In connection with LabX Titration Server PC software, the Dual operation mode offers full support of FDA 21 CFR part 11 regulations.



Flexible powerful methods

Samples that do not release water easily or that cause side reactions can be analyzed using a homogenizer or external extraction. Predefined methods that trigger the homogenizer or offer direct blank determination of the extracting solvent make these applications simple.



V30S Compact Volumetric KF Titrator

The Karl Fischer Specialist titrator is the flexible and powerful instrument for fast and precise water determination in any industry for samples containing water content between 100 ppm and 100%.

- Color touchscreen with One Click user interface
- User specific homescreen with shortcuts for direct access to all routine tasks
- User interface in English, German, French, Spanish, Italian, Chinese, Russian, Polish, Korean and Portuguese
- Task list for queuing different tasks and direct access
- Intelligent burettes with RFID chip saving relevant data
- Connectivity to LabX[®] Titration PC software via USB or direct ethernet (TCP/IP)
- Common USB printers or the USB-P25 compact printer for secure and GLP-compliant recording
- Homogenizer TTL I/O control

Functionality Overview		V30S
Application	Solid, liquid and gaseous samples	•
	Resources and method database	•
	KF titrants	100
	KF standards	50
One Click® Titration	User specific Homescreen with Shortcuts	•
	Shortcuts per user	12
	Solvent Control	•
	Solvent Manager	•
Hot Plug & Play	Burette recognition with titrant, concentration and monitoring data	•
	External Dosing Unit for addition of auxiliary reagents	•
	USB printer DIN-A4/US letter / USB-P25 compact printer	•
	USB memory stick / USB barcode reader / USB hub	•
Security	LevelSens	•
	LogStraight Fingerprint Reader	•
Automation	InMotion KF Oven Autosamplers	•
User Management	Expert – Routine	•
	Preprogrammed METTLER TOLEDO methods	11
Methods and series	KF standard methods	6
	Max. number of user methods	150
	External extraction/dissolution dedicated method type	•
	Number of method function	150
	Number of samples per series	120
	Autostart: automatic start after sample addition	•
	Drift stop for endpoint recognition (absolute and relative, tmax, delay)	•
	Max. number of calculations/results per method	40
	User defined calculations	•
	Statistics of up to 120 samples including result limits check, outlier test	•
	Extra statistical functions as max. srel and multiple determinations	•
	Recalculation of results	•
	Data in Online Screen: time, water count, potential, stirrer speed, volume, drift	•
	Data in measured value table: time, water count, potential, volume, drift	•
Curves in Online Screen and printout: E-V, E-t, V-t, drift-t, water count-t	•	
Task list	Number of tasks queued	10
Online Help	Context sensitive parameter explanation	•
Data Export	USB, Ethernet, PDF	•
Languages	User interface and printouts in English, German, French, Spanish, Italian, Chinese, Russian, Polish, Korean, Portuguese	•
	LabX® Titration Express and Server	•
PC software	LabX® Server full FDA 21 CFR part 11 support	•
	Homogenizer	TTL
Communication	Ethernet (TCP/IP)	1
	COM (serial balance connection)	1
	USB host (printer, memory stick, barcode reader, hub)	2
	USB client (PC)	1
	Integrated Magnetic Stirrer	1
	TTL I/O	1
	Pump / Stirrer	1

Technical Specifications

Polarized sensor input	Measurement range	-2000 ... +2000 mV
	Resolution / Limits of error	0.1 mV / 2 mV
	Polarization current range	0 ... 24 µA
	Polarization current resolution / Limits of error	0.1 µA / 1 µA
Burette drive	Drive resolution	20'000 steps
	Burette resolution (for 5 mL burette)	0.25 µL
	Limits of error	0.3% of the respective volume
	Resolver	32 pulses / mm stroke
	Resolver resolution	0.0625% of burette volume
	Filling time and discharge time	20 s at 100% filling rate
Environment	Ambient temperature	+5 ... +40 °C
	Atmospheric humidity	max. 80% at 31 °C
Titrator dimensions	Width x depth x height / Weight	210 x 333 x 320 mm / 4.2 kg
	Glass beaker	150 mL
Control and display	Touchscreen	VGA 5.7" color TFT, 640 x 480 pixel
Application (depends on the environment and handling)	Drift measurement	Online, < 5 µg/min
	Measurement range	100 ppm...100%
	Repeatability	0.3% at >10 mg H ₂ O

METTLER TOLEDO Group
Laboratory Division



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