

## One Click® Water Determination Combined with General Titration



### Excellence in Karl Fischer titration

Preprogrammed METTLER TOLEDO methods start volumetric Karl Fischer titrations without any modification in One Click. The Online screen always shows the condition of the titration vessel and offers direct access to every important task.



### Karl Fischer Kit

Everything needed for volumetric Karl Fischer titration is available in one kit including the titration stand with vessel, sensor, cables and tubes, the Solvent Manager for One Click solvent exchange and all small accessories. Simply choose a burette size and add Karl Fischer titration to your general titrator.



### Automation with Stromboli

Up to 14 samples can be titrated unattended with the Stromboli oven sample changer. Repeatability and efficiency are significantly improved and operation becomes simple, as Stromboli is fully controlled by the titrator. Flexible methods allow multiple blank and sample series with statistics.



### Homogenizer speed control

Solid non-soluble samples can be ground with a homogenizer directly in the titration vessel saving time and avoiding special chemicals for extraction. The homogenizer speed is controlled by the titrator via the RS-Interface and is therefore documented in the method. This guarantees a maximum of security.



### Titration Excellence T70 & T90

The modular Titration Excellence line offers flexible combination of different modules to one complete, compact and powerful system.

- More than 500 general titration applications and Karl Fischer titration combined, even run in parallel on a T90
- One Click user interface with user specific Homescreen and Shortcuts for direct access to all routine tasks
- User interface in English, German, French, Spanish, Italian, Chinese, Russian, Polish, Korean and Portuguese
- Flexible user management
- Solvent Control for KF solvent monitoring and replacement in One Click
- Task list for queuing different tasks and direct access
- Intelligent burettes and sensors save all relevant titrant or sensor data
- Connectivity to LabX® titration PC software

<b>Functionality Overview</b>		<b>T70</b>	<b>T90</b>	
<b>One Click® Titration</b>	Shortcuts per user	12	12	
	Solvent Control	•	•	
<b>Hot Plug and Play</b>	Plug & Play sensor recognition	•	•	
	Automatic burette recognition with titrant and titer	•	•	
<b>Security</b>	Solvent Manager	•	•	
	LevelSens	•	•	
<b>Automation</b>	LogStraight Fingerprint Reader	•	•	
	Rondo sample changer	•	•	
	Rondolino autom. titration stand	•	•	
<b>Burette drives</b>	Stromboli oven sample changer	•	•	
	Max. number to dose and titrate (internal + external)	1 + 3	1 + 7	
	Learn titration	•	•	
	Number of method functions per method	60	150	
	Number of loops per method	3	6	
	"If ... then" conditions	-	•	
	Result buffer	-	•	
	Series sequences	-	10	
	Number of samples per series	120	120	
	Predefined METTLER TOLEDO Methods	>40	>40	
	KF standard methods	4	4	
	KF External extraction/dissolution dedicated method type	•	•	
	<b>Methods and series</b>	Max. number of methods	120	120
		Autostart: automatic start after sample addition	•	•
		Drift stop for KF end point recognition (absolute and relative, tmax, delay)	•	•
Max. number of calculations/results per method		40	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 KF Online Screen: time, water count, potential, stirrer speed, volume, drift		•	•	
Data in KF measured value table: time, water count, potential, volume, drift		•	•	
Curves in KF Online Screen and printout: E-V, E-t, V-t, drift-t, water count-t		•	•	
<b>Task list</b>		Number of tasks	10	30
		Number of tasks running in parallel	7	8
<b>Online Help</b>		Context sensitive parameter explanation	•	•
<b>Data Export</b>		RS-232	•	•
<b>Languages</b>	User interface and printouts in English, German, French, Spanish, Italian, Chinese, Russian, Polish, Korean**, Portuguese			
<b>PC software</b>	LabX® titration light and pro	•	•	
	LabX® pro full FDA 21 CFR part 11 support	•	•	
<b>Homogenizer</b>	RS232-C and TTL-I/O	•	•	
<b>Sensor boards</b>	Analog or conductivity (standard + optional)	1 + 1	1 + 2	
	Potentiometric (standard + optional)	2 + 2	2 + 4	
	Polarized (standard + optional)	1 + 1	1 + 2	
	<b>Sensor inputs</b>	Reference (standard + optional)	1 + 1	1 + 2
		PT1000 (standard + optional)	1 + 1	1 + 2
		Conductivity / NTC (optional)	2	3
<b>Communication</b>	Ethernet	1	1	
	COM (standard + optional)	3 + 1	3 + 2	
	USB host (printer, memory stick, barcode reader, hub)	1	1	
	USB client (PC)	1	1	
	CAN Bus	•	•	
	TTL-I/O	1	1	
	Pump / Stirrer (standard + optional)	3 + 1	3 + 2	
<b>KF Application*</b>	Drift measurement Online, < 5 µg/min	•	•	
	Measurement range 100 ppm... 100%	•	•	
	Repeatability 0.3% at >10 mg H <sub>2</sub> O	•	•	

\* depends on the environment and handling / \*\*only user interface



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