Titration Excellence

One Click® Titration

Efficient, Secure and Modular

Application Versatility

Together with the volumetric or coulometric Karl Fischer Kit, water content down to 1 ppm can be determined. The system is easily expanded with an additional pH or conductivity board, allowing pH and conductivity measurements and titrations. Even Coulometric Karl Fischer titration is simply integrated with the KF Kit.

Method loops

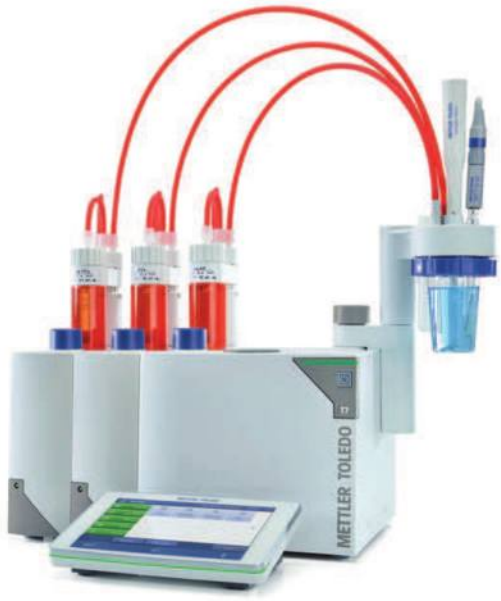
Up to three different analyses can be combined in a single method using method loops.. For example, electrode calibration, titer determination and sample analyses can be combined as loops within a single method and the results can be calculated simultaneously.

Upgrade to T9

If required, the T7 firmware can be upgraded to the T9 version. In the future, your T7 can make full use of the unlimited power and possibilities of the T9. A decision in favor of the T7 still leaves all options open.

Powerful Automation

The task list allows sequential analysis of different methods or series. The Liquid Handler Dosing System fulfills every aliquoting and pipetting task. On the InMotion sample changer, samples labeled using LabX SmartCodes are automatically recognized by the LabX Software and the correct titration method is started - everything without any user interaction.



T7 – Flexible and Expandable

Titration Excellence line

Besides the many advantages of the Titration Excellence line such as One Click® Titration, Plug & Play and the method database, the T7 offers a number of important features:

- Expandable to perform conductivity measurements
- More flexible methods with loops
- Upgrade to T9
- Task List
- Continuous runs
- Automation with Liquid Handler
- Solvent Control for KF solvent monitoring and automatic replacement
- Accompanying pH-stating

METTLER TOLEDO

Functionality Overview

		T7
One Click® Titration	Shortcuts per user	24
	KF Solvent Control	•
Hot Plug & Play	Plug & Play sensor recognition	•
	Burette recognition with titrant and titer	•
	Burette drive	•
	KF Solvent Manager	•
	USB printer, memory stick, barcode reader	•
Security	LevelSens	•
	LogStraight Fingerprint Reader	•
Automation	Rondolino automated titration stand	•
	InMotion Autosamplers	•
	InMotion KF Oven Autosamplers	•
Burette drives	Max. number to dose and titrate	1 (internal) + 3 external
Method and series	Learn titration	•
	Number of method functions per method	60
	Number of loops per method	3
	Number of samples per series	303
	Pre-programmed METTLER TOLEDO methods	>70 (incl. KF methods)
	Max. number of methods	150
Task list	Number of tasks	10
	Number of tasks running in parallel	7
Upgradeable		to T9
Data Export / Printing	RS-232, USB, Network, PDF	•
Sensor Boards	Analog, conductivity or coulometer	1 standard + 1 optional
Sensor inputs	Potentiometric	2 standard + 2 optional
	Polarized	1 standard + 1 optional
	Reference	1 standard + 1 optional
	PT1000	1 standard + 1 optional
	Conductivity / NTC	2 optional
Communication	Ethernet	1
	COM	3 standard + 1 optional
	USB host (printer, memory stick, barcode reader, hub)	3
	USB client (PC)	1
	CAN bus	•
	TTL-I/O	1
	Pump / Stirrer	3 standard + 1 optional
PC software	LabX® Express and Server	•
Homogenizer		RS/TTL

Technical Specifications

Potentiometric sensor inputs	Measurement range	± 2000 mV
	Resolution / Error limit	0.1 mV / 0.2 mV
Polarized Sensor input	Measurement range Ipol / Upol	0 … 2000 mV / 0 … 200 µA
	Resolution Ipol / Upol	0.1 mV / 0.1 µA
	Error limit Ipol / Upol	2.0 mV / 0.2 µA
	Current source range Ipol / Upol	0–24 µA AC / 0–2000 mV AC
	Current source resolution Ipol / Upol	0.1µA / 0.1mV
Temperature sensor input PT1000	Measuring range	–20...130 °C
	Resolution / Error limit	0.1 °C / 0.2 °C
Burette drive	Burette resolution (for 10 mL burette)	0.5 µL (1/20 000 of the burette volume)
	Error limit	0.2% of the burette volume
	Resolver resolution	0.0625% of burette volume
	Filling time and discharge time	20 s at 100% filling rate
Titrator dimensions	Width x depth x height / Weight	210 x 246 x 250 mm / 4.3 kg
Terminal	Screen	WVGA 7" color TFT
	Resolution	800 x 480 pixel

METTLER TOLEDO Group
Laboratory Division

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