

Simple but secure



Terminal with brilliant color Touch Screen

The terminal has a high resolution, brilliant Touch Screen that can be freely and conveniently positioned thanks to the cable connection. This coupled with the adjustable display angle guarantees you enjoy an ergonomic and stress-free working environment.



Expandable with dispensing burette drives

Hot Plug & Play allows you to connect further dispensing burette drives to the titrator without restarting. The burettes themselves are recognized by the drive via the RF-ID. Expired titrant or incorrect concentrations or burette sizes are a thing of the past.



Comprehensive communication connections

Not only USB or CAN Bus connectivity, but also Ethernet, RS-232 and TTL connections are standard. This allows all commercial USB printers supported by Windows CE, as well as older TTL or RS-232 instruments to be connected without additional hardware.



Preconfigured system application packages

Everything you need for analysis in four versions:

- T50 M Terminal: Manual titration stand and Terminal as control unit
- T50 M LabX: Manual titration stand and LabX light as control unit
- T50 A Terminal: Rondolino automated titration stand and Terminal as control unit
- T50 A LabX: Rondolino automated titration stand and LabX light as control unit



T50 – The first level of Excellence Titration Excellence line

The Titration Excellence line offers many advantages such as One Click Titration™, Plug & Play and Method database (see the One Click Titration™ family brochure). The T50 is the ideal entry-level model for the Titration Excellence line and offers much more than a simple titrator:

- Terminal with brilliant Touch Screen
- Expandable with dispensing burette drives
- Comprehensive communication connections
- Preconfigured system application packages

T50 Functionality Overview

One Click Titration™	Short Cuts per user	12
Hot Plug and Play	Automatic burette recognition with titrant and titer	yes
	Burette drive	yes
	Rondo sample changer	yes
	Rondolino automatic titration stand	yes
Burette drives	Max. number to dose and titrate	1 (internal)
	Max. number to dose only	+ 3 external
Methods and series	Learn titration	yes
	Number of method functions per method	15
	Number of samples per series	120
	Predefined METTLER TOLEDO methods	>30
	Max. number of methods	120
Sensor boards	Analog or conductivity	1
Sensor inputs	Potentiometric	2
	Polarized	1
	Reference	1
	PT 1000	1
	Conductivity / NTC	1 optional
Communication	Ethernet	1
	COM	3
	USB host	1
	USB client	1
	CAN Bus	yes
	Pump / stirrer	3
	TTL I/O	1

Technical specifications

Potentiometric sensor inputs	Measurement range	± 2000 mV
	Resolution	0.1 mV
	Error limit	0.2 mV
Polarized Sensor input	Measurement range	0 ... 2000 mV / 0 ... 200 µA
	Resolution	0.1 mV / 0.1 µA
	Error limit	0.2 mV / 0.3 µA
Temperature sensor input PT1000	Resolution	0.1 °C
	Error limit	0.2 °C
Burette drive	Burette resolution (for 10-mL burette)	0.5 µL (1/20'000 of the burette volume)
	Error limits	At 10 % 15 µm, at 30 % 15 µm, at 50 % 25 µm, at 100 % 50 µm
	Resolver	32 pulses/mm stroke
	Resolver resolution	0.0625 % of burette volume
	Filling time and discharge time	20 s at 100 % filling rate
	Titration dimensions	Width x depth x height
	Weight	4.3 kg
Terminal	Control	Touch control
	Screen	¼ VGA 5.7" color TFT
	Resolution	320 x 240 pixel
	Angle	Adjustable in three positions



Quality certificate ISO9001
 Environment certificate ISO14001
 Internet: <http://www.mt.com>
 Worldwide service

Subject to technical changes
 ©07/2006 Mettler-Toledo AG
 Printed in Switzerland 51724463
 Promotion & Documentation Analytical

www.mt.com/titration

Visit for more information