Simple
but Secure

Terminal with brilliant color Touchscreen

The terminal has a high resolution, brilliant Touchscreen 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.

Plug & Play sensors and burettes

The most important titration peripherals are automatically recognized by the titrator, minimizing user intervention. Important data such as sensor calibration or titrant concentration are saved in the sensor and burette chip and automatically transferred to the titrator. Using the wrong titrant or electrode is impossible.

Sensor Chip

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 other instruments to be connected without additional hardware.

Preconfigured system application packages

Everything you need for analysis in two versions:
- T50 M Terminal: Manual titration stand and Terminal as control unit
- T50 A Terminal: Rondolino automated titration stand and Terminal 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 Touchscreen
- Plug & Play sensors and burettes
- Comprehensive communication connections
- Preconfigured system application packages
- Security with LevelSens and LogStraight Fingerprint Reader

METTLER TOLEDO

One Click® Titration	Shortcuts per user	12
Hot Plug & Play	Plug & Play sensor recognition	•
	Automatic burette recognition with titrant and titer	•
	Burette drive	•
	USB printer	•
	Memory stick	•
	USB barcode reader	•
Security	LevelSens	•
	LogStraight Fingerprint Reader	•
Automation	Rondo sample changer	•
	Rondolino automated titration stand	•
Burette drives	Max. number to dose and titrate	1 (internal)
	Max. number to dose only	+ 3 external
Method and series	Learn titration	•
	Number of method functions per method	15
	Number of loops per method	1
	Number of samples per series	120
	Predefined METTLER TOLEDO methods	>30
	Max. number of methods	120
Data Export	RS-232	•
Sensor Boards	Analog or conductivity	1
Sensor inputs	Potentiometric	2
	Polarized	1
	Reference	1
	PT1000	1
	Conductivity / NTC	1 optional
Communication	Ethernet	1
	COM	3
	USB host	1
	USB client	1
	CAN Bus	•
	TTL-I/O	1
	Pump / Stirrer	3
PC software	LabX® titration connectivity light and pro	•
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
Temperatur-Sensor 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 (1/20000 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	210 x 246 x 250 mm
	Weight	4.3 kg
Terminal	Control	Touch control
	Screen	QVGA 5.7″ color TFT
	Resolution	320 x 240 pixel
	Angle	Adjustable in three positions

www.mt.com/titration

For more information

ISO 9001 registered   ISO 14001 registered