

# 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.



### 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.



### 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:

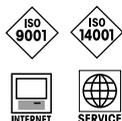
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- Plug & Play Sensors and Burettes
- Comprehensive communication connections
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## T50 Functionality Overview

<b>One Click Titration™</b>	Short Cuts per user	12
<b>Hot Plug and Play</b>	Plug & Play sensor recognition	yes
	Automatic burette recognition with titrant and titer	yes
	Burette drive	yes
	Rondo sample changer	yes
	Rondolino autom. titration stand	yes
<b>Burette drives</b>	Max. number to dose and titrate	1 (internal)
	Max. number to dose only	+ 3 external
<b>Methods and series</b>	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
<b>Sensor boards</b>	Analog or conductivity	1
<b>Sensor inputs</b>	Potentiometric	2
	Polarized	1
	Reference	1
	PT1000	1
	Conductivity / NTC	1 optional
<b>Communication</b>	Ethernet	1
	COM	3
	USB host	1
	USB client	1
	CAN Bus	yes
	Pump / stirrer	3
	TTL I/O	1

## Technical specifications

<b>Potentiometric sensor inputs</b>	Measurement range	± 2000 mV
	Resolution	0.1 mV
	Error limit	0.2 mV
<b>Polarized Sensor input</b>	Measurement range	0 ... 2000 mV / 0 ... 200 µA
	Resolution	0.1 mV / 0.1 µA
	Error limit	0.2 mV / 0.3 µA
<b>Temperature sensor input PT1000</b>	Resolution	0.1 °C
	Error limit	0.2 °C
<b>Burette drive</b>	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
<b>Titration dimensions</b>	Width x depth x height	210 x 246 x 250 mm
	Weight	4.3 kg
<b>Terminal</b>	Control	Touch control
	Screen	¼ VGA 5.7" color TFT
	Resolution	320 x 240 pixel
	Angle	Adjustable in three positions



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