

Digital Titrator



The digital Tritator is ideal for a fast and sensitive titration "drop by drop". One instrument simulates all volumes up to 99.99 ml. Moreover, titration is possible without any loss of reagent! From air-purging, necessary for a precise titration, to disassembly of the burette in the end of the titration – the reagent, that is not needed for titration flows back into the bottle accuracy and precision are of highest quality. The memory function allows saving of up to 1000 values, which can be transferred to a PC and read using the included software.



Digital Display

Handwheel

Fine adjustment - with an additional knob the desired amount can be easily titrated or dispensed more precisely



Only available with fine adjusted version

Reset button / Calibration button

TIT-Button: Titration mode

DOS-Button: Dosing / Dispensing mode

MEM-Button: Storage of data

The displayed value can be stored in the internal memory. This memory can be readout with the provided software and interface cord (RS232).

Discharge tube with protective sleeve

0° dosing and titration mode

90° air-purging mechanism in a closed circuit

180° rest position 100% drip-free

Quick and precise volume setting :

The dispensing and titration volume can be set by turning the hand wheels. The mode can be changed by pressing "DOS" respectively "TIT". The display shows the emitted volume ("TIT" mode) respectively the filled volume ("DOS" mode).



Perfect air-purging mechanism for 0% reagent loss :

Turn the discharge tube at 90°. Remove (purge) trapped air without reagent loss by pumping in a closed circuit. The reagent flows back into the bottle! After pumping 2 - 3 times the dispenser is free of air and ready to use. This special feature helps not only to save residual reagent but also when accidentally setting the wrong volume!



360°-turn for your added safety :

No matter how much you tighten Titrator, you can always redirect the discharge tube by simply turning the valve block to the desired position. This way the label of the bottle is always visible. This feature works for all our adapters. Adapters for different bottle threads can remain on the bottle.



100 % drip-free system for your safety :

By turning the discharge tube at 180° all liquid flows back into the bottle. Titrator is completely closed and no accidental discharge can occur by inadvertently moving the piston. There is absolutely no dripping possible!

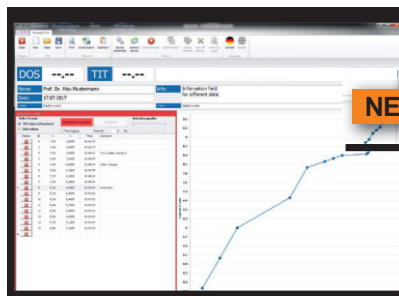


"Do-it-yourself" Recalibration for a long life time :

If you use Titrator as a measuring device in conformity to ISO 9001 and GLP, you need to control and monitor its accuracy and reliability. Therefore you can easily recalibrate the value by pressing „CAL“ until the display shows „CAL“. With the buttons „+“ and „-“ you can now adjust and correct the value. Titrator can also be adjusted to liquids with other density and viscosity. Titrator can also be recalibrated with the included Titrator Software.



Titrator Software (Included in scope of supply)



"TITRATOR SOFTWARE (Included in scope of supply) :

Through the access to the Titration memory, all data can be transferred to a PC – no more transmission errors! The completely new developed software helps to process the stored data. Saved values can be read-out in real-time during the titration process or afterwards. Via the protocol export function, the data together with the automatically created graph can be either printed or saved.

One instrument
for all volumes

Digital Tritator

Your advantage at a glance:

- High quality precision instrument
- Highest accuracy and precision, our error ranges are better than the DIN EN ISO 8655-3 requirements
- Resistant against most acids and alkalis
- Exclusive instrument with 0% loss of reagent - air-purging and draining within a closed circuit
- 360° rotatable valve block for your added safety
- Two-in- One instrument: dosing & titration
- Covers the complete volume range up to 50 ml when used as a dispenser and up to 99.99 ml when used as a burette
- Easy and precise volume setting
- Vertical valves: no sedimentation, no contamination
- 100 % drip-free by turning the cannula at 180°
- No transcriptions errors due to automatic value storage and the possibility of
- Transferring values to a PC via RS232 interface (USB adapter optional available)
- Calibration: standard with water of 20°C
- Software enables saving the next calibration date
- Recalibration for liquids of different viscosities possible e.g. determination of acid content in milk
- Easy to dismantle and to clean, valve block autoclavable at 121°C
- Automatic power-cut-off after three minutes
- Including NiMH 1,2V 2100mAh battery
- Individual certificate, CE label and serial number



Tritator inclusive software and RS232 interface cord

Type	Volume	Venchal		ISO 8655-3		Order number
		Systematic errors	Random errors	Systematic errors	Random errors	
	ml	± ml	ml	± ml	ml	
Standard	0-50	0.03	0.01	0.1	0.05	6500050
Fine adjustment	0-50	0.03	0.01	0.1	0.05	6500051

Scope of supply

Digital Tritator, Suction tube, discharge tube, instruction manual, serial number, battery charger with EU and US adapter, software, RS232 interface cord, thread adapter A25, A28, GL32/45, S40

Parts in contact with reagent:

The components having direct contact with the reagent are made of chemical resistant materials : platinum spring, ceramic valve balls, PTFE piston, borosilicate glass 3.3 cylinder, borosilicate glass 3.3 valve

Optional accessories for Digital Tritator and general titration applications

Type	Order number
Tritator Software (in scope of supply of digital Titration) supports all manual titration applications, automatic graph creation,	NEW DEVELOPED 6500052
RS232 to USB adapter To connect the RS232 interface cord with an USB port	6500053