

xylem



TITRONIC® 300

BROCHURE
XA00007



a xylem brand

TITRONIC® 300

The new piston burette

The TITRONIC® 300 is a perfect motor-driven burette for manual titration and a precise dosing instrument for dispensable liquids, solvents and titrating agents. However, the TITRONIC® 300 is not only first-rate as a stand-alone instrument, it also thrives as the heart of a computer-controlled dosing or titrating system.

Manual Titration

It is true that automatic titration is gaining ground, but manual titration remains the standard cost-effective technique in the lab, wherever high precision and flexibility are required.

- ▶ Titration with hand controller (mouse)
- ▶ Titration rate can be adjusted in five different steps to optimize speed and accuracy
- ▶ Automatic calculation of results in different units and exportation to a printer or USB memory device
- ▶ Automatic weight recording when a balance is connected



TITRONIC® 300

Titrate manually, dose perfectly

Dosing

In addition to the titration, there are various routine dosing tasks that must be performed in the lab.

A piston burette is ideal for precise dosing tasks:

- Adjustable dosing and filling rate for each method
- Adjustable filling between each dose step
- The intelligent filling function checks if a dosing step is feasible without filling in advance, this reduces faulty operations during a serial dosing process

Edit dosing parameter
dose 12 ml

Dosing volume	12.000 ml
Dosing speed	100.00 %
Dosing speed	100 ml/min
Filling speed	30 s
Automatic filling	always

AV
50 ml NaOH 0.1 m

Dose
dose 12 ml

5.019 ml
12.000 ml

STOP **ESC**
50 ml NaOH 0.1 m 10/20/14 12:13

Titration is running
man Titration HCl

2.408 ml

Speed 3
Stop
20 ml

Device is filling
man Titration HCl

Consumption	2.950 ml
HCl	5.09 %

Back **ESC**
Printing... 10/20/14 18:49

Specifications - TITRONIC® 300

Features	
Interfaces	1 x USB-A and 1 x USB-B, 2 x RS-232-C
Stirrer connection	TM 50, power supply directly through piston burette
Keyboard	The unit is operated using the keys on the device itself, the controller TZ 3880 and optional PC-keyboard (USB)
Display	Graphics-capable TFT display
Volume display	0000,000...9999,999 mL
Display resolution	0.005-0.025 mL (depending on dosing unit)
Dosing speed	Max. 100 mL/min (with 50 mL unit)
Filling speed	Min 30 s to 999 s adjustable (time according to the cylinder volume)
Dosing units	20 mL or 50 mL dosing unit, interchangeable
Burette resolution	8000
Dosing accuracy	Systematic error 0.15 %, random error 0.05 % in compliance with EN ISO 8655-6
Power supply	100 -240 V~; 50/60 Hz, power input 30 VA
Conformity	ISO 8655, part 6
CE-mark	EMC: 2004/108/EG; safety EG- Directive 2006/95
Dimensions	135 x 310 x 205 mm (W x H x D), including dosing unit, without stirrer
Weight	2 kg (without stirrer)
Ambient conditions	Ambient temperature: + 10 ... + 40 °C for operation and storage. Humidity according to EN 61 010, Part 1:Max. relative humidity 80 % for temperatures up to 31 °C, linear decrease down to 50 % relative humidity at a temperature of 40 °C

Ordering information - TITRONIC® 300

Type-No.	Order-No.	Description
T 300/20 M1	285230020	TITRONIC® 300 without magnetic stirrer TITRONIC® 300 basic unit with ready-to-use assembled 20 mL dosing unit, manual controller, titration clamp, stand rod and power supply 100-240 V
T 300/50 M1	285230060	TITRONIC® 300 without magnetic stirrer TITRONIC® 300 basic unit with ready-to-use assembled 50 mL dosing unit, manual controller TZ 3880, titration clamp, stand rod and power supply 100-240 V
T 300/20 M2	285230030	TITRONIC® 300 with magnetic stirrer TITRONIC® 300 basic unit with ready-to-use assembled 20 mL dosing unit, magnetic stirrer TM 50, manual controller, titration clamp, stand rod and power supply 100-240 V
T 300/50 M2	285230070	TITRONIC® 300 with magnetic stirrer TITRONIC® 300 basic unit with ready-to-use assembled 50 mL dosing unit, magnetic stirrer TM 50, manual controller, titration clamp, stand rod and power supply 100-240 V

Accessories - TITRONIC® 300

Type-No.	Order-No.	Description
TM 50	285225840	Magnetic stirrer
TZ 3835	285220410	USB-keyboard
TZ 3830	285220420	USB-HUB
TZ 3803	285220590	Reagent bottle, amber, 1l

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