Electronic Titrator 0.01-99.99 mL, Digital Burette with Built-In Magnetic Stirrer, 10 µL Resolution

Model **MSDTITRSWISS** | Brand **Master Science**











The Master Science Electronic Titrator turns a reagent bottle into a motor-driven burette. Instead of reading a glass burette and turning a stopcock, you set the delivery from a control panel and the motor moves the piston in 10 µL steps.

KEY HIGHLIGHTS

- Cleaner end points
- Hands off the burette
- Stirring included
- Less operator strain

AT A GLANCE

0.01-99.99 mL	R = 0.2%, CV = 0.07%
VOLUME RANGE	VOLUME ACCURACY

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

The panel sits away from the bottle and also carries a built-in magnetic stirrer, so the titration flask stays mixed while reagent is added. Range runs from 0.01 mL to 99.99 mL, with sixteen speed stages and volume performance checked to DIN EN ISO 8655.

For fully automatic end-point detection, step up from the Master Science Electronic Titrator to our automatic potentiometric titrator.

The Master Science Electronic Titrator is suited to routine manual and colour-indicator titrations:

Glass burettes are cheap but slow and prone to reading errors. The Master Science Electronic Titrator helps with:

Overview

- High quality motor for precise piston movement
- 0.01-99.99 mL range, 10 mL max piston lift
- 10 µL resolution

Key Benefits

Cleaner end points
The Master Science Electronic Titrator adds titrant in 10 µL steps, so you can approach the end point slowly.

Hands off the burette
The remote panel keeps vibration and handling away from the dispensing unit.

Stirring included
A magnetic stirrer is built into the panel, so no separate stirrer is needed.

Less operator strain
Electronic control replaces repeated manual turning and reading.

Technical Specifications

GENERAL

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Volume range	**0.01-99.99 mL**
Max piston lift	10 mL
Resolution	10 µL
Volume accuracy	**R = 0.2%, CV = 0.07%**
Velocity	16 stages
Stirring	Built-in magnetic stirrer
Control type	External control of stirrer and burette program
Quality control	DIN EN ISO 8655
Operating temperature	10-30°C

TITRATION PROBLEMS THE MASTER SCIENCE ELECTRONIC TITRATOR HELPS FIX

Reading errors	Digital volume replaces meniscus reading on a glass scale.
Overshooting the end point	Fine 10 µL steps and adjustable speed let you slow down near the end.
Uneven mixing	The built-in stirrer keeps the flask homogeneous throughout.
Breakage and handling	A bottle-mounted burette avoids filling and clamping fragile glassware.

Applications

Acid-base titrations in teaching and QC labs

Determination of acidity in food and beverages

Water hardness and chloride titrations

Pharmaceutical assay titrations

Standardising reagent solutions

Control

- Remote control panel prevents disturbance during operation
- Controls both the stirrer and the burette program
- 16 speed stages

Performance

- Accuracy R = 0.2%, precision CV = 0.07%
- Checked to DIN EN ISO 8655
- Operating range 10-30°C

Standard Accessories Included

- Motor-driven burette (dispensing unit)
- Control panel with built-in magnetic stirrer