Potentiometric Titrator - Automatic Touch Screen Titrator - 10/20 mL Burette - ±0.005 pH Accuracy

Model **MSTITR-A41SWISS** | Brand **Master Science**





The Master Science Potentiometric Titrator performs potential titration analysis from a 7-inch colour touch screen. The method, the titration curve and the results are shown live, and a formula editor turns the end point straight into the reported value.

KEY HIGHLIGHTS

- Objective end points
- Aqueous and non-aqueous work
- Results without a calculator
- Reports ready to file
- Controlled access

AT A GLANCE

-2000.00 to 2000.00 mV MV RANGE	**-2.000 to 20.000 pH** PH RANGE
±0.005 pH; ±0.05% or ±0.3 mV ACCURACY	**±0.025 mL (10 mL); ±0.035 mL (20 mL)** BURETTE ACCURACY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

A replaceable high-accuracy burette of 10 mL or 20 mL doses the titrant with 1/50000 resolution. The tubing withstands acids, alkalis, perchloric acid and organic reagents, so non-aqueous titrations can be run as well as aqueous ones.

Overview

- High-accuracy replaceable burette
- Resistant to acid, alkali, perchloric acid and organic reagents

Key Benefits

Objective end points
the Master Science Potentiometric Titrator detects the equivalence point from the potential curve.

Aqueous and non-aqueous work
chemically resistant burette line.

Results without a calculator
built-in formula editor.

Reports ready to file
CSV or PDF export.

Controlled access
user password management.

For water content determination, see the Master Science Karl Fischer titrator.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSTITR-A41SWISS
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Titration Modes	DET (dynamic), MET (monotonic), SET (preset end point), constant pH, blank, MAT (manual)
Titration Types	Acid-base, non-aqueous acid-base, redox, precipitation, complexometric
Titration Repeatability	≤0.2%
Burette	Replaceable, 10 mL or 20 mL
Burette Accuracy	**±0.025 mL (10 mL); ±0.035 mL (20 mL)**
Burette Resolution	1/50000
mV Range	**-2000.00 to 2000.00 mV**
pH Range	**-2.000 to 20.000 pH**
Resolution	0.001 pH; 0.01 mV
Accuracy	**±0.005 pH; ±0.05% or ±0.3 mV**
Stability	±0.3 mV per 3 h
mV Repeatability	≤0.2 mV
pH Calibration	1 to 3 points; NIST, DIN, GB buffer groups
Temperature Compensation	-5.0 to 110.0 °C; resolution 0.1 °C; accuracy ±0.2 °C
Stirring	Overhead or bottom stirrer supported
Power Supply	AC 80-250 V, 47-63 Hz

DISPLAY & DATA

Data Storage	1000 sets, with GLP functions and password management
Outputs	RS-232 for printing; USB flash drive export as CSV or PDF
Display	7.0-inch colour LCD touch screen

DIMENSIONS & WEIGHT

Dimensions	240 × 370 × 270 mm
Net Weight	About 4 kg

COMMON PROBLEMS AND HOW THIS TITRATOR HELPS

Common Problems and How This Titrator Helps	How the Master Science Potentiometric Titrator improves on manual titration:
Colour end points judged by eye	potentiometric detection.
Coloured or turbid samples	electrode signal instead of indicator.
Aggressive titrants damaging tubing	corrosion-resistant burette line.
Hand calculations and transcription	formula editor and file export.

Applications

The Master Science Potentiometric Titrator is used for
Acid-base titration Non-aqueous acid-base titration Redox titration Precipitation titration Complexometric titration

Titration

- Six titration modes
- Live display of method, curve and results
- Titrant management

Data

- 1000-set storage
- Selectable print format over RS-232
- Flash drive export

Standard Accessories Included

- 10 mL burette
- pH indicator electrode
- Platinum electrode
- Silver electrode
- Reference electrodes, 2 types
- Temperature probe
- pH standard powders (4.01, 7.00, 10.01)

Optional Accessories

- 20 mL burette