Multi-Channel Auto Titrator - Automatic Potentiometric Titrator - 4 Burette Channels - 0.001 pH

Model **MSTITR960BASICSWISS, MSTITR960PROSWISS** | Brand **Master Science**





The Master Science Multi-Channel Auto Titrator is a PC-controlled potentiometric titration system built around a mixed synchronous inlet. Up to four channels deliver titrant, additives or auxiliary reagents at the same time, in any combination, without manual dosing.

KEY HIGHLIGHTS

- Several liquids dosed at once
- Safer reagent handling
- Fine dosing
- Unattended series
- Networked data

AT A GLANCE

-2000.0 to +2000.0 mV MV RANGE	**-20.000 to +20.000 pH** PH RANGE
-5 to 120 °C / ±0.1 °C TEMPERATURE RANGE / ACCURACY	**0.1 mV / 0.1 mV ±0.03%** MV RESOLUTION / 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 burettes sit inside the instrument behind a viewing window, which contains any leak while letting the operator watch the stroke. Two versions are offered; the Pro model adds an audit trail. Either can run on a single titration stand or with an auto-sampler for unattended series.

Overview

- Built into the instrument
- Visible through a window during the test
- Four interchangeable volumes

Key Benefits

Several liquids dosed at once
the Master Science Multi-Channel Auto Titrator synchronises up to four channels.

Safer reagent handling
burettes enclosed inside the housing.

Fine dosing
1/150,000 burette resolution.

Unattended series
optional auto-sampler.

Networked data
Ethernet link for storing the database on a server.

For a single-burette instrument, see the Master Science potentiometric titrator.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSTITR960BASICSWISS, MSTITR960PROSWISS
SKU	MSTITR960BASICSWISS, MSTITR960PROSWISS
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Model Number	MSTITR960BASICSWISS, MSTITR960PROSWISS
SKU	MSTITR960BASICSWISS, MSTITR960PROSWISS
mV Range	**-2000.0 to +2000.0 mV**
mV Resolution / Accuracy	**0.1 mV / 0.1 mV ±0.03%**
pH Range	**-20.000 to +20.000 pH**
pH Resolution / Accuracy	**0.001 pH / 0.003 pH**
Temperature Range / Accuracy	**-5 to 120 °C / ±0.1 °C**
Titration Modules	Up to 4 (2 in the standard package)
Charging Modules	Up to 4 (2 in the standard package)
Burette Volume	1, 5, 10 or 25 mL (10 mL standard)
Burette Resolution	1/150,000
Burette Filling Time	16 s at 100% speed
Communication	2 × USB, RS232, Ethernet
PC Control	Yes
User Management	Graded, with customisable operation permissions
Audit Trail	Pro model only
Electrode Connectors	mV/pH measuring electrode, reference electrode, PT1000 temperature
Data kept on one PC	server storage through Ethernet.

DIMENSIONS & WEIGHT

Package Dimensions (W×D×H)	480 × 410 × 410 mm
Gross Weight	15 kg

COMMON PROBLEMS AND HOW THIS TITRATOR HELPS

Common Problems and How This Titrator Helps	How the Master Science Multi-Channel Auto Titrator handles complex titration work:
Manual addition of auxiliary reagents	automatic multi-channel dosing.
Exposed burettes and chemical leaks	built-in burette behind a window.
Operator tied to the bench	auto-sampler runs without supervision.

Applications

The Master Science Multi-Channel Auto Titrator is used for

Potentiometric titrations needing several reagents
Routine titration series with an auto-sampler
Laboratories that archive titration data centrally

Inlet System

- Mixed synchronous inlet
- Automatic addition of titrant, additives and auxiliary agents
- Expandable to 4 channels

Connectivity

- Ethernet for database storage on a cloud server
- USB and RS232 ports
- PC software control

Titration Platform

- Independent single-position titration stand
- Works with an auto-sampler for multi-sample runs

Standard Accessories Included

- 2 titration modules
- 2 charging modules
- 10 mL burette

Optional Accessories

- 1, 5 and 25 mL burettes
- Additional titration and charging modules (up to 4)
- Auto-sampler: 16 positions × 100 mL, 12 positions × 250 mL or 18 positions × 50 mL