KF Moisture Titrator - Compact Karl Fischer Water Analyzer - 10 µg-250 mg - 7-inch Touchscreen

Model **MSTITR-41VSWISS, MSTITR-41CSWISS** | Brand **Master Science**







The Master Science KF Moisture Titrator is a compact, budget-friendly Karl Fischer instrument offered as a volumetric model for higher water contents or a coulometric model for trace moisture. Both share a 7-inch high-contrast touchscreen, solvent manager and automatic drift correction.

KEY HIGHLIGHTS

- Choose the right technique
- Safe reagent handling
- Stable endpoints
- Fits small labs
- Easy data export

AT A GLANCE

0 to 2000 mV	±3 %, fluctuation ±2.5 %/30 min
MV RANGE	POLARISATION CURRENT ACCURACY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Oven sampling is supported on both versions, extending measurement to solids, gases and samples that release water slowly.

> Labs that need both KF techniques in one unit can choose the Master Science dual-mode Karl Fischer titrator.

Key Benefits

Choose the right technique
the Master Science KF Moisture Titrator comes in volumetric and coulometric versions to suit your water range.

Safe reagent handling
the solvent manager drains and refills reagents in a closed system.

Stable endpoints
automatic or manual drift correction compensates for ambient moisture.

Fits small labs
a compact footprint and simple touchscreen operation.

Easy data export
results go to a printer, PC or U-disk.

PASSWORD PROTECTION

200 GLP result memory

Technical Specifications

GENERAL

General	Specifications of the two Master Science KF Moisture Titrator versions:
Brand	Master Science
Model Number	MSTITR-41VSWISS, MSTITR-41CSWISS
SKU	MSTITR-41VSWISS, MSTITR-41CSWISS
Models	MSTITR-41VSWISS (volumetric), MSTITR-41CSWISS (coulometric)
Water Range	**0.1 to 250.0 mg (volumetric); 10.0 µg to 200 mg (coulometric)**
Water Resolution	1 µg (volumetric); 0.1 µg (coulometric)
Water Repeatability	≤ 0.5 % (volumetric); ≤ 1 % (coulometric)
Units	µg, mg, %, ppm, µg/mL, mg/L
mV Range	**0 to 2000 mV**
mV Resolution	1 mV (volumetric); 0.1 mV (coulometric)
Methods	Auto titration, titer (volumetric), oven, oven blank, coefficient correction (coulometric)

POWER

Polarisation Current Accuracy	**±3 %, fluctuation ±2.5 %/30 min**
Generator Current (coulometric)	±0.5 %, fluctuation ±0.2 %/10 min
Power Supply	AC 100 to 240 V, 47 to 63 Hz

DISPLAY & DATA

Data Storage	200 records (GLP)
Interfaces	RS232 printer, USB PC software, U-disk CSV export
Display	7-inch color touchscreen

DIMENSIONS & WEIGHT

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

COMMON LABORATORY PROBLEMS AND HOW THIS TITRATOR HELPS

Common Laboratory Problems and How This Titrator Helps	How the Master Science KF Moisture Titrator supports routine water testing:
Loss on drying is too slow and unspecific	KF titration measures water directly.
Reagent exposure	closed solvent handling limits contact.
Unstable results in humid labs	drift correction compensates automatically.
Hard-to-dissolve samples	oven sampling is supported.
Manual result recording	USB and printer output document each run.

Applications

The Master Science KF Moisture Titrator is used for
Pharmaceutical raw materials Oils, fuels and lubricants Chemicals and solvents Food ingredients Plastics and powders

Volumetric Version

- Auto titration and titer determination
- Oven and oven blank methods
- 10 mL burette with solvent manager

Coulometric Version

- Trace water from 10 µg
- Oven, blank and coefficient correction methods
- Generator and measuring electrodes

Standard Accessories Included

- Volumetric version: solvent manager, 10 mL burette, volumetric vessel, measuring electrode
- Coulometric version: solvent manager, coulometric vessel, measuring electrode, generator electrode

Optional Accessories

- KF oven
- GMP software
- Printer