Halogen Moisture Analyzer - LCD Moisture Balance with RS232 - 110 g, 40-199°C

Model **MSMCA110-10SWISS, MSMCA110-5SWISS, MSMCA110-2SWISS, MSMCA110-1ASWISS** | Brand **Master Science**





The Master Science Halogen Moisture Analyzer combines a halogen heater with a precision weighing cell to give the moisture content or dry residue of a sample as a percentage. The housing is aluminium and the drying chamber is stainless steel, so the unit stands up to daily use on a production or laboratory bench.

KEY HIGHLIGHTS

- One instrument, two results
- Four readability levels
- Wide heating range
- Durable build
- Ready for records

AT A GLANCE

110 g CAPACITY	**Ø90 mm** PAN SIZE
0.20% (-10); 0.10% (-5); 0.04% (-2); 0.01% (-1A) MOISTURE READABILITY	

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Overview

Four versions are available, all with 110 g capacity, reading to 0.01 g, 0.005 g, 0.002 g or 0.001 g. On each Master Science Halogen Moisture Analyzer the drying temperature is set from 40 to 199°C in 1°C steps and the time from 1 to 99 minutes, and results appear on a white-backlit LCD with black characters.

The specification table for the Master Science Halogen Moisture Analyzer range is reproduced below.

Key Benefits

One instrument, two results
: the Master Science Halogen Moisture Analyzer shows moisture content or dry residue.

Four readability levels
: from 0.01 g down to 0.001 g.

Wide heating range
: 40 to 199°C in 1°C steps.

Durable build
: aluminium shell with stainless steel chamber.

Ready for records
: RS232 interface fitted as standard.

For trace water determination by titration, see the Master Science Karl Fischer titrator.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSMCA110-10SWISS, MSMCA110-5SWISS, MSMCA110-2SWISS, MSMCA110-1ASWISS
SKU	MSMCA110-10SWISS, MSMCA110-5SWISS, MSMCA110-2SWISS, MSMCA110-1ASWISS
Capacity	**110 g**
Readability	**0.01 g (MSMCA110-10SWISS); 0.005 g (MSMCA110-5SWISS); 0.002 g (MSMCA110-2SWISS); 0.001 g (MSMCA110-1ASWISS)**
Calibration	External calibration
Heating Source	Halogen lamp
Temperature Sensor	PT100
Temperature Range	**40 to 199°C, 1°C step**
Time Setting	1 to 99 min, 10 s step
Moisture Range	**0.00% to 100.00%**
Moisture Readability	**0.20% (-10); 0.10% (-5); 0.04% (-2); 0.01% (-1A)**
Dry Residue Range	**100.00% to 0.00%**
Dry Residue Readability	**0.20% (-10); 0.10% (-5); 0.04% (-2); 0.01% (-1A)**
Number of Stored Settings	15
Operating Temperature	5 to 35°C

DISPLAY & DATA

Display	Backlit LCD (high-definition backlit LCD on selected versions)
Interface	RS232 (standard)

DIMENSIONS & WEIGHT

Pan Size	Ø90 mm
Chamber Height	22 mm
External Dimensions (W x D x H)	280 x 250 x 180 mm
Net Weight	5.8 kg

POWER

Heater Power	220 V ±15% 50 Hz / 110 V ±15% 60 Hz, 400 W
Balance Power	Input 220 V 50 Hz / 110 V 60 Hz; output 9 V

COMMON PROBLEMS THIS ANALYZER SOLVES

Common Problems This Analyzer Solves	Conventional oven drying leaves several gaps that this instrument closes.
Long waits for oven results	: heating and weighing happen in one chamber.
Re-entering the same method every time	: up to 15 settings are stored.
Hand-copied results	: RS232 output connects to a printer or computer.
Housings that corrode or dent	: aluminium shell and stainless steel chamber.

Applications

The Master Science Halogen Moisture Analyzer is used for routine moisture checks such as: Food, grain and feed samples Pharmaceutical and chemical powders Plastics and polymer granules Quality control and teaching laboratories

Design

- Halogen lamp heating
- Aluminium shell with stainless steel chamber
- LCD with white backlight and black characters

Functions

- Temperature and time setting
- Displays percentage of moisture content or dry residue
- Stores historical settings
- RS232 interface as standard

Optional Accessories

- Aluminium box
- Printer
- Grinder