# Halogen Moisture Analyzer - Touch Screen Moisture Content Tester - 110 g, 40-160°C

Model **MSMCA110-T10ESWISS, MSMCA110-T5ESWISS, MSMCA110-T1ESWISS** | Brand **Master Science**







The Master Science Halogen Moisture Analyzer dries a sample under a halogen lamp while a load cell tracks the weight loss, then reports moisture or solid content directly as a percentage. It is built for any workplace that needs a quick, repeatable moisture figure without a drying oven.

KEY HIGHLIGHTS

- Results without an oven
- Readability to match the job
- See the drying progress
- Heating to suit the sample
- Flexible endpoints

AT A GLANCE

| | |
|---|---|
| **40 to 160°C (1°C step)** TEMPERATURE RANGE | **0.00% to 100.00%** MOISTURE RANGE |
| **100.00% to 0.00%** SOLID CONTENT RANGE | **PT100** TEMPERATURE SENSOR |

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

support@themsci.com
www.themsci.com

Scan to view online

## Overview

Three versions share the 110 g capacity and differ in readability: 0.01 g, 0.005 g and 0.001 g. Every Master Science Halogen Moisture Analyzer has a 5-inch full-colour touch screen that plots the drying curve as the test runs, with Standard, Fast and Soft heating modes to suit the sample.

Specifications for the three versions of the Master Science Halogen Moisture Analyzer are given below.

The Master Science Halogen Moisture Analyzer is intended for moisture content checks, for example in:

## Key Benefits

**Results without an oven**
: the Master Science Halogen Moisture Analyzer heats and weighs in one unit.

**Readability to match the job**
: choose 0.01 g, 0.005 g or 0.001 g.

**See the drying progress**
: live curve on the touch screen.

**Heating to suit the sample**
: Standard, Fast and Soft modes.

**Flexible endpoints**
: automatic, manual or timed stop.

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

## Technical Specifications

### GENERAL

| | |
|---|---|
| Brand | Master Science |
| Model Number | MSMCA110-T10ESWISS, MSMCA110-T5ESWISS, MSMCA110-T1ESWISS |
| SKU | MSMCA110-T10ESWISS, MSMCA110-T5ESWISS, MSMCA110-T1ESWISS |
| General | Max. Capacity: 110 g |
| Readability | **0.01 g (MSMCA110-T10ESWISS); 0.005 g (MSMCA110-T5ESWISS); 0.001 g (MSMCA110-T1ESWISS)** |
| Sensor | Load cell |
| Heat Source | Halogen lamp |
| Temperature Sensor | PT100 |
| Temperature Range | **40 to 160°C (1°C step)** |
| Time Setting | 1 to 99 min (10 s step) |
| Moisture Range | **0.00% to 100.00%** |
| Moisture Readability | **0.10% (T10E); 0.05% (T5E); 0.01% (T1E)** |
| Solid Content Range | **100.00% to 0.00%** |
| Solid Content Readability | **0.10% (T10E); 0.05% (T5E); 0.01% (T1E)** |
| Real-time Curve | Real-time dynamic curve |
| Testing Space | 30 mm |
| Operating Temperature | 15 to 30°C |
| Power Supply | 220 V, 50 Hz / 110 V, 60 Hz |

### DIMENSIONS & WEIGHT

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|---|---|
| Pan Size | φ100 mm |
| External Dimensions | 340 x 215 x 170 mm |

### DISPLAY & DATA

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|---|---|
| Display | 5-inch full-colour touch screen |
| Data Storage | 20 groups |

### COMMON PROBLEMS THIS ANALYZER SOLVES

| | |
|---|---|
| Common Problems This Analyzer Solves | Moisture testing by oven drying is slow and easy to get wrong. |
| Oven tests take hours | : halogen heating and direct weighing shorten the wait. |
| One heating profile does not suit every sample | : choose between Standard, Fast and Soft modes. |
| First test of the day reads differently | : empty pan preheating brings the chamber to working condition. |
| No record of earlier runs | : 20 groups of results are stored for later query. |

## Applications

- **Food and grain processing**
- **Pharmaceutical and chemical raw materials**
- **Plastics and polymer granules**
- **Quality control and teaching laboratories**

## Operation

- Full-colour touch screen
- Real-time testing curve
- Standard / Fast / Soft heating modes
- Automatic / Manual / Timed stop modes
- Silent rapid cooling fan
- Adaptive micro-voltage adjustment
- Test frequency selection
- Clock function
- History record query

## 11 Function Settings

- Heating mode, stop mode, heating temperature and heating time settings
- Baud rate setting
- Language setting (CN/EN)
- Date and time setting
- Data storage setting
- Factory reset
- Instrument calibration
- Empty pan preheating