Touch Screen Moisture Balance - Halogen Moisture Analyzer with Stage Mode - 220 g, 0.01% Readability

Model **MSBA-M500SWISS** | Brand **Master Science**





The Master Science Touch Screen Moisture Balance is made for any industry that needs a fast moisture figure. It handles solids, granules, powders, colloids and liquids, so one instrument can serve both the laboratory and the production line.

KEY HIGHLIGHTS

- Handles almost any sample form
- Even, thorough drying
- Full picture of each test
- Methods for difficult samples
- No consumables

AT A GLANCE

0.01%
MOISTURE READABILITY

Diameter 100 mm
SAMPLE PAN

: the stainless steel pan is reused.
RUNNING COSTS FROM DISPOSABLE PANS

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

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www.themsci.com

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Overview

A ring-shaped tungsten halogen source heats the sample evenly while the load cell follows the weight loss. The 7-inch capacitive screen of the Master Science Touch Screen Moisture Balance plots moisture, weight and temperature curves together, and four test modes, including staged heating at different temperatures, cover a wide variety of sample types.

The Master Science Touch Screen Moisture Balance serves laboratory and production moisture checks on:

Key Benefits

Handles almost any sample form
: solids, granules, powders, colloids and liquids.

Even, thorough drying
: ring heating source on the Master Science Touch Screen Moisture Balance.

Full picture of each test
: three curves and 12 parameters on screen.

Methods for difficult samples
: stage mode steps through different temperatures.

No consumables
: reusable stainless steel sample pan.

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

Technical Specifications

GENERAL

General	Specifications of the Master Science Touch Screen Moisture Balance are listed below.
Brand	Master Science
Model Number	MSBA-M500SWISS
SKU	MSBA-M500SWISS
Weighing Range	**0 to 220 g**
Weighing Accuracy	**0.005 g (5 mg)**
Moisture Readability	**0.01%**
Temperature Range	**Start temperature to 225°C**
Moisture Measurement Range	**0.01 to 100%**
Weighing Sensor	Load cell
Heating Mode	Fast
Test Modes	Automatic, timed, manual, stage
Timing Range	**1 to 360 min (expandable)**
Sample Pan	Diameter 100 mm
Heating Light Source	Tungsten halogen ring heating light source

DISPLAY & DATA

Display Parameters	Moisture %, solid content %, moisture curve, solid content curve, temperature curve, test duration, constant weight time, measurement mode, set temperature, measured temperature, initial weight, final weight
Display Language	English
Data Storage	Latest 50 sets of measurement data (expandable)
Display Curves	Three test curves shown together: moisture M, weight W, temperature T
Display	7-inch capacitive touch display

DIMENSIONS & WEIGHT

Product Dimensions (L x W x H)	390 x 220 x 170 mm
Net Weight	3.65 kg

COMMON PROBLEMS THIS BALANCE SOLVES

Common Problems This Balance Solves	Quick moisture checks often fail for practical reasons.
Uneven drying gives scattered results	: the ring heater warms the whole sample surface.
One temperature does not suit a complex sample	: stage mode runs several temperature steps in one test.
Operators need long training	: guided touch-screen operation can be used on the line.
Running costs from disposable pans	: the stainless steel pan is reused.

Applications

- **Solids and granules**
- **Powders**
- **Colloids**
- **Liquids**

Measurement

- Compact structure with fast measurement, convenient operation and reliable data
- Ring heating light source heats the sample more evenly for thorough, faster drying
- Load cell design addresses temperature drift and time drift for better accuracy
- High-sensitivity temperature control components keep the test temperature accurate and controllable
- Four test modes: automatic, timing, manual and stage measurement
- Stage measurement tests a sample at different temperature stages

Display and Data

- 7-inch capacitive touch screen: intuitive, clear and responsive
- Three curves shown at the same time: moisture M, weight W and temperature T
- 12 displayed parameters, including moisture %, solid content %, test duration and constant weight time
- Stores the latest 50 sets of measurement data for history review
- Zero consumables in use: stainless steel sample plate is reusable
- Simple guided operation that needs no special training