

The New MA160 Moisture Analyzer Manages Your Sophisticated Tasks



Fast, Precise and Easy Moisture Analysis

To be able to perform fast and accurate analysis on the widest variety of product samples, you need a reliable instrument that gives you maximum flexibility.

The MA160 uses the thermogravimetric method to determine the moisture content of liquids, pastes and solids – conveniently, reliably and in minimum time. It delivers outstandingly fast, absolutely reproducible results and features an intuitive Method Development Assistant that enables you to develop new methods in just three easy steps. The MA160 gives you the functions you need for professional and secure management of the methods you have created.

High-speed measurements

Reliable Method Development Assistant function

High memory capacity for results and methods

User-friendly operation

Effortless cleaning

Display of the measurement status

Reliable performance testing

Compatibility with Sartorius MA150

MA35 mode

These methods can be stored via an SD card and transferred to other MA160 analyzers. During a measurement, a status light indicates the current progress of a measurement.

At the touch of a button, you can run the built-in performance test with a ReproEasy pad to check the functionality of the MA160 – ensuring flawless performance over the long term.



Applications

With its optimised ALRI heating unit, the MA160 delivers high-speed measurements.

The MA160 is ideal for moisture analysis of the widest variety of samples under Development Assistant function enables you to create your own methods for percent sample moisture management and storage. This is the perfect solution for your work in the QC lab and in process monitoring.

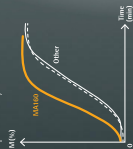
Typical areas of application for the MA160 include moisture analysis of foods, beverages, pharmaceuticals, chemicals, polymers and other materials for environmental protection.



Features

High-speed measurements

Both the high-performance ALRI heating unit and the sample chamber's geometry ensure fast and accurate moisture analysis of your sample with up to 320% quicker analysis time.



User-friendly operation

The MA160's intuitive user interface, including a touch screen, and easy-to-use methods and efficiently manage them in a library. In addition, the results of the last 20 measurements are automatically stored in the data memory. This ensures easy GMP-compliant documentation at any time.

High memory capacity

MA160 features a high memory capacity, which allows you to store up to 100 methods and efficiently manage them in a library. In addition, the results of the last 20 measurements are automatically stored in the data memory. This ensures easy GMP-compliant documentation at any time.

Fast and precise development of methods

The MA160's Method Development Assistant function solves the time-consuming problem of having to determine and evaluate the right parameters, which can be done with the new methods quickly in just three simple steps.

Display of the measurement status

The light indicates the current status of a measurement in progress: Heating in progress (red), Heating completed (green), Cooling in progress (blue), and Cooling completed (yellow). STOP, and Shut-off OFF, are indicated.

Reliable performance testing

A Reproday Pul in combination with the built-in performance test lets you check the heating unit's performance. The test is carried out automatically and the moisture analyzer within just 5 minutes. This test guarantees reliable results, saving you from going to the trouble of performing accurate temperature adjustment.

Compatibility with Sartorius MA150

The downward compatibility of the analyzer lets you readily use MA150 method parameters. The additional MA3's mode lets you use the MA150's heating unit with parameters developed for the MA35.

Effortless cleaning

The RetroClean design lets you easily and thoroughly clean the instrument parts. Additionally, the heating unit and sample chamber are removable for easy cleaning. The heating unit is removable for cleaning in a 100 °C dry cabinet.



Technical Specifications

Max. weighing capacity	200 g
Starting at an initial sample weight of approx. 1 g: at 2%,	
Reproducibility, typical	1 mg, 0.01%
Typical sample quantity	5 g – 15 g
Display modes for results	Moisture content in % M and % g dry weight in % S and g
Temperature range and	
ATRO ratio in % MS	40 °C – 200 °C, in increments of 1 °C
Sample heating	Infrared heating using an ALRI heating unit, 600 W
Heating programs	Standard drying, gentle drying, MA35 mode
Shut-off parameter	Fully automatic, semi-automatic, manual and with timer settings
Forcibly for samples	Mini USB port: automatic printer detection, direct transfer to
Data interface	SD card, function for importing and exporting methods and results
Housing dimension (W x D x H)	215 x 400 x 210 mm (8.5" x 15.7" x 8.3")
Weight	Approx. 6.2 kg (approx. 13.6 lbs)

Accessories

6855543	Disposable sample pans, 80 units, diameter: 90 mm, Ø
6805540	Glass fiber pads for samples of pasty and fatty samples, hard quality; 80 units; 90 mm Ø
6805541	Glass fiber pads for analysis of liquid and fatty samples, soft quality; 200 units; 90 mm Ø
YDP10A	External calibration unit for performance testing to check the functionality of the analyzer's heating unit and weighing system
YCV512-AC-02	External calibration weight, 100 g (E2) with DMS calibration certificate*
YDP40	Standard laboratory printer
YCP30	Premium GIP laboratory printer
YCP30-D09	Adapter cable for connecting a YDP20-OCE printer
YCP30-D09	Data printer
YCP30-D09	Customer-specific service for individual method development at the Sartorius Application Laboratory in Göttingen, Germany, or in the USA
YU0028 (incl. Short report)	Customer-specific service for individual method development at the Sartorius Application Laboratory in Göttingen, Germany, or in the USA

* DMS – German accreditation body recognised throughout Europe



Disposable sample pans

Reproday pad

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