MB Series

Moisture Analyzers

From Basic to Advanced, the OHAUS MB Series Offers Superior Performance and Great Value.

OHAUS MB Series Moisture Analyzers combine high quality and durable construction into sleek, compact designs. The MB Series offer dependable, accurate, results for a wide variety of applications.

Standard Features Include:

- **Flexible Performance** – The OHAUS MB Series provide accurate results from 0.01% to 0.1% readability. And with your choice of halogen or infrared heating, they are ideal for a wide variety of applications, from pharmaceutical and chemical to food, textile, wastewater and other applications.
- **Simple to Operate** – Set up and operation is extremely easy. Just press and hold the temperature or time buttons to set drying parameters, add your sample and begin the test process. This makes the MB Series ideal for routine tasks performed by operators of all skill levels.
- **Compact, Easy-to-Clean Design** – The compact footprint of the OHAUS MB Series is designed to take up less space on any counter top. Their easy-to-clean heating chambers are ideal for frequent use and inexpensive maintenance.
- **Advanced Applications** - For more complex measurement, the MB45 also features statistical analysis, 50 procedure test library, GLP/GMP printing and a dot matrix backlit display.

MB Series Moisture Analyzers

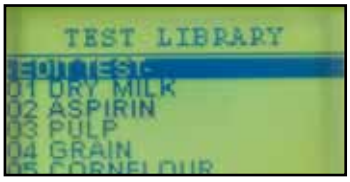
OHAUS, The Leader in Value Priced, Reliable Compact Moisture Analyzers.

Designed to quickly, effectively and affordably measure moisture content, the OHAUS MB Series Moisture Analyzers incorporate state-of-the-art heating and weighing technologies that provide fast and accurate results. Perfect for applications in the pharmaceutical, chemical and research industries; versatile and rugged enough for continuous operation in food and beverage, quality control, environmental and many other applications. The MB Series Moisture Analyzers feature excellent repeatability properties for consistent accuracy during testing.

OHAUS MB45. The Advanced Moisture Analyzer.

The MB45 is the standard in high performance moisture content determination. The MB45 features multi-language display text (English, Spanish, French, Italian and German), a sample capacity of 45g, with a readability of 0.001g and repeatability to 0.015% (using 10g sample). An integrated database stores up to 50 drying procedures for maximizing productivity, simply recall the test from memory and begin.

Display shows % moisture, % solids, weight, time, temperature, drying curve and more.



Test Library to Store, Edit and Run Tests

- *Powerful – Program and recall up to 50 drying procedures.*
- *Easy – Once programmed, simply select and run test.*
- *Flexible – Allows simple test editing to find best results.*

- Four selectable automatic drying programs allow for easy one step drying, simply set the temperature and time, and begin
- Four enhanced heating options
- Statistical function for simple tracking and recording of standard deviation over time. The MB45 does all the calculations and provides the end result. Great for Quality Control and Assurance applications
- Operating temperature range from 50º to 200º C in 1º increments

Optimum Performance

Unique Auto Shut-Off Options

- Choice of three preprogrammed end points for automatic test completion.
- Custom design your own test end point criteria.
- Timed tests with audible signal when finished.

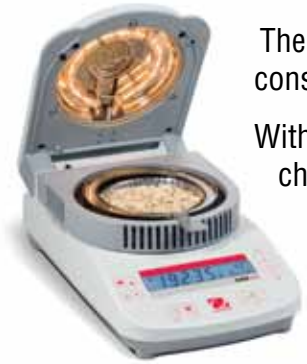
Enhanced Heating Options

- Fast – For quickest possible time to temperature.
- Standard – For minimal overshoot while achieving temperatures quickly.
- Ramp – For controlled ramping to temperatures.
- Step – Set three temperatures for difficult samples.

OHAUS MB35. The Standard Moisture Analyzer.

The MB35 features a maximum sample capacity of 35g, with a readability of 0.002g and repeatability to 0.02% (10g sample). The intuitive software establishes a simple user interface with simple 3 key navigation for easy setup. The MB35 offers a straightforward one step testing procedure. The LCD display shows % moisture, actual weight, actual temperature and test time. The MB35 operating temperature range is 50º to 160º C in 5º increments.

OHAUS MB23 and MB25. Basic Moisture Analyzers.



The new OHAUS MB23 and MB25 Moisture Analyzers combine high quality durable construction and easy one button setup, making them ideal for operators of all skill levels.

With a large backlit LCD display, standard RS232 port, readabilities from 0.1% to 0.05% and a choice of halogen or infrared heating, the MB23 and MB25 offer flexibility for any budget.

Model Selection

	MB23	MB25	MB35	MB45
% Readability	0.1%	0.05%	0.02%	0.01%
Repeatability 3g (%)	0.3%	0.2%	0.18%	0.05%
Repeatability 10g (%)	0.2%	0.05%	0.02%	0.015%
Capacity × Readability	110g × 0.01g	110g × 0.005g	35g × 0.002g	45g × 0.001g
Heat Source	Infrared Coil	Halogen Lamp	Halogen Lamp	Halogen Lamp
Display Type	Backlit LCD	Backlit LCD	Graphical	Graphical
Display Language	English	English	English, Spanish, French,	English, Spanish, French, Italian, German
Heat Range	50-160 (5 Incr)	50-160 (5 Incr)	50-160 (5 Incr)	50-200 (1 Incr)
Shutoff Criteria	Manual, Timed or Auto	Manual, Timed or Auto	Manual, 1-120 min, 30-ses. Inc. to 60 min 1 min. incr. from 60 - 120 min or Auto	Manual, Custom, pre set 1-120 minutes in 10-second increments or Auto
Heating Profiles	Standard	Standard	Standard	Fast, Std, Ramp, Step
Display Results	% moisture, % solids, Actual Weight, Temp	% moisture, % solids, Actual Weight, Time, Temp	% moisture, Actual Weight, Time, Temp	% moisture, % solids, % regain, time, temp, weight, test ID, drying curve & statistics
Library	NA	NA	NA	50 Procedures
Applications				
Textiles/Cotton	•	•		
Food	•	•	•	•
Wastewater	•	•	•	•
Quality Control			•	•
Agriculture	•	•	•	•
Any Oven	•	•	•	•

MB Series Moisture Analyzers

Specifications

Model	MB45	MB35	MB25	MB23
Capacity	45g	35g	110g	110g
Repeatability (Std Dev) (g)	0.05% (3g sample) 0.015% (10g sample)	0.18% (3g sample) 0.02% (10g sample)	0.2% (3g sample) 0.05% (10g sample)	0.3% (3g sample) 0.2% (10g sample)
Readability	0.01% / 0.001g	0.02% / 0.002g	0.05% / 0.005g	0.1% / 0.01g
Sample Size	3g to 20g typical, 0.5g min.			
Output	Bidirectional RS-232 w/ GLP/GMP		Bidirectional RS-232	
Heating Technology	Halogen with ramped voltage to save bulb life			Infrared (no glass)
Temperature Range	50°C to 200°C in 1° increments	50°C to 160°C in 5° increments		
Heating Options	4 (Fast, Standard, Ramp, Step)	(1) Standard		
Shutoff / Timing Criteria	Manual, Custom, pre set 1-120 minutes in 10-second increments or Auto	Manual, 1-120 min, 30-ses. Inc. to 60 min 1 min. incr. from 60 - 120 min or Auto	Manual, Timed 1 - 99 minutes, 30-second increments to 60 minutes, or Auto	
Power	120, 240 VAC 50/60 Hz		100 to 240 VAC, 50/60 Hz	
Tare Range	To capacity by subtraction			
Operating Temperature Range	41° to 104°F / 5° to 40°C			
Calibration	Weight and temperature calibration (masses and temperature kit sold separately)			
Display Type	128 x 64 pixel dot matrix backlit LCD display		Custom backlit LCD	
Test Database	50 procedure test library	NA		
Result Displays	% moisture, % solids, % Regain, statistics, time, temperature, weight (g), test ID, drying curve	% moisture, actual weight (g), actual temperature and test time	% moisture or % solids or weight (g), temperature, time	
Display Language	English, Spanish, French, Italian, German	English, Spanish, French	English	
Pan Size (Diameter)	3.5 inch / 90 mm			
Dimensions (W x H x D)	7.5 x 6 x 14.2 inches / 19 x 15.2 x 36 cm		6.5 x 5 x 11 inches / 17 x 13 x 28 cm	
Net Weight	10.1 lb / 4.6 kg		5 lb / 2.3 kg	
Shipping Weight	14.1 lb / 6.4 kg		8.5 lb / 3.9 kg	

Accessories	**OHAUS Number**
Compact Dot Matrix Impact Printer	80252042
Compact Thermal Printer	80251992
OHAUS Collect Software	80500746
TAL Software WinWedge	SW12W
Paper for Printer 80252042	80251932
Ribbon for Printer 80252042	80251933
RS232 Cable & Adapter, 80252042 Printer to MB45, MB35, MB23, MB25	80252571
RS232 Cable & Adapter, 80251992 Printer to MB45, MB35, MB23, MB25	80252581
RS232 Cable, PC 9 Pin to all MB45, MB35, MB23, MB25	80500525
Temperature Calibration Kit for MB45, MB35, MB23, MB25	11113857
RS232 Cable, PC 25 Pin to MB45 and MB35	80500524
Sample Pans for MB45, MB35, MB23, MB25 (50/box)	80850086
Reusable Sample Pans for MB45, MB35, MB23, MB25 (3/pk)	80850088
Pads, Glass Fiber for MB45, MB35, MB23, MB25 (200/box)	80850087
Security Lock for MB45, MB35, MB25, MB23 (Kensington® type)	470004-010
Sample Pan Holder (STD for MB45, MB35, MB25)	11113873
In use cover MB45, MB35 (STD for MB45, MB35)	80850085
In use cover MB23, MB25 (STD for MB25, MB23)	80252475

Compliance

- **Safety and EMC:** $_{c}CSA_{US}$, low voltage directive: EN61010-1:2001; EN61010-2-010:92+A1:96, FCC Part 15 Class A, EMC directive EN61326:1997+A1:98+A2:01
- **Quality:** Ohaus quality management system registered to ISO 9001:2008

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With offices throughout Europe, Asia, and Latin America

*** ISO 9001**
Registered Quality Management System

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