

Moisture Balance



“Prominent for Simple Moisture Analysis Demanding Precise Result”

Applications:

- Pharmaceutical
- Food/Dairy
- Chemical
- Agriculture
- Plastic
- paint
- Environmental labs

Overview:

GMB series Moisture Analyzer is having Halogen Heating technique to analyze the Moisture content of the sample; it can examine the moisture contents faster and accurately.

In the process of measuring a sample halogen lamp heating unit and the water evaporation channel rapidly dries that sample. During the drying process; the moisture meter continuously measures the moisture content of the sample lost instantly displays on the screen; after the final moisture loss content value is display.

Compared with the international oven heating method, the halogen heating can reach the maximum heating power in the shortest time. The samples are quickly dried at high temperature and the test results are in good agreement with the national standard oven method. General samples can be measured in just few minutes with very simple operation with a wide variety of applications.

“Advance Technology Moisture Analyzer”

To increase the efficiency in the laboratory this Moisture Analyzer has advance halogen heating and weighing technologies which helps to yield fast and accurate results

An instinctual **Touch-Screen** icon-driven menu guides users through every step of the operation process. Through these moisture analyzers data can be quickly retrieve. It has multiple set of data storage and 15 groups of heating storage. Simple and Rugged design with compact concept ensure a less space, inexpensive long service-life and interference-free operation in laboratory.

“The value of Moisture Analyzer is not just an assessment but the Result makes it Accurate.”

When fast and accurate moisture analysis is required the GMB-MW and GMB-100MW-T series moisture analyzer provides magnificent/splendid value or exceptional result. The robust housing and die-cast/ABS top-housing structure is designed for easy handling, tool-free cleaning and durability.

Results can be analyzed by statistic and graphical representation also.

“Rapid Analysis”

The instrument finalizes on a programmed rate of weight change compared to the actual initial weight of the sample over a programmed window of time. Begin the test allows for easy one step drying process by setting the temp and time. As it has advanced halogen heating technology, final result comes in recorded time.

Salient Features:

- 5 -inch High-Definition Smart Touch Display; shows Real-time dynamic analysis, Drying Curve, Weight, Moisture Percentage, Dry Weight Percentage and more for GMB-100MW-T
- Fast Halogen Light Heating
- Enhanced Heating Options: Standard drying, Fast drying & Soft drying
- Shut-off criterion: Automatic switch off, Time-controlled switch off & Manual switch off by pressing stop key
- Temperature and time can be set
- Large backlit LCD display for easy viewing
- Stainless steel chamber
- Store historical settings

“Enhanced Heating Options”

Standard drying:

This heating profile is suitable for most of the samples. The sample will be heated up to the set drying temperature and will keep constant at that temperature, selectable 40 ° C to 199 ° C.

Fast Drying:

This heating profile is suitable for samples with high moisture content (such as liquids).

The temperature will initially rise rapidly for a short time; after it will exceed the set drying temperature by 30%. That way the latent heat will be compensated, thereby accelerating the drying process, then the temperature is controlled down to the set value.

Soft drying:

This heating profile is suitable for soft drying of substances prone to skin formation (such as easily liquefiable substances or substances containing sugar). Skin formation affects the evaporation of trapped moisture. The temperature will be increased continuously and will not reach the set drying temperature before the so-called ramp duration has elapsed.

“Ultimate Performance with Isolated/Eccentric Switch-off Criterion”

A switch-off selection defines: the condition under which the device should cancel the drying process. Switch-off criteria save time and controls cancelling of drying processes. moreover they ensure that measurements are always finished under the same conditions, thereby providing repeatable measurements.

1. AUTO (automatic switch-off; 2g weight loss in 45s)

This switch-off criterion is based on a weight loss per time unit. As soon as the medium weight loss drops below the desired value per unit of time, the measurement will be finished automatically.

2. TIMING (Time-controlled switch off, selectable 3min- 99h 59min_10 steps)

When this switch-off criterion is selected the measurement will continue until the set drying time has lapsed (max. time 99h 59 min)

3. MANUAL

Switch-off by pressing ‘Stop’ key.

Optional Accessories:

- Compact thermal printer
- PC Software
- RS 232 cable for computer interface
- RS 232 cable for USB interface
- Temperature calibration kit
- Sample pans – 50/box
- Reusable sample pans – 3/box
- Pads, glass fiber – 100/box
- Sample pan holder
- In use cover
- Security lock

Technical Specifications:

GMB-MW series of halogen moisture analyzer

Model	GMB105MW	GMB100MW	GMB-100 MW Touch Screen (5 inch Panel)
Capacity	110 g	110 g	110 g
Readability (g)	0.05% / 0.005 g	0.01% / 0.001 g	0.01% / 0.001 g
Moisture range	0.00% -100.00%		
Repeatability	0.15% (2 g sample) 0.05% (5 g sample) 0.02% (10 g sample)		
Sample Size	3 g to 20 g typical, 0.5 g min.		
Moisture Readability	0.10 %	0.01 %	0.01 %
Dry Readability	0.10 %	0.01 %	0.01 %
Ambient temperature	5 °C -35 °C		
Pan size	Ø90mm		
Result of Displays	[%] moisture content [%] dry content [%] residual weight in grams		
Sensor	Loadcell		
Display Type	LCD with Backlit		
Heating Source	HALOGEN LAMP	400 W Halogen Lamp	
Temperature Sensor	PT-100		
Temperature range	40 ° C to 199 ° C		
Temperature adjustable	1 °C		
Number of Storage	15	20	
Interface	RS 232		
Power & Balance	Input: 220V 50HZ; 400 W Output: 9V		
Host Dimension	490 X 360 X 350 mm		
Gross Weight	7.5 kg		
Included Accessories			
Sample Pan (Qty:)	Standard		
In use Cover	Standard		
Sample pan holder	Standard		

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