



**aczel**<sup>®</sup>  
...Since 1986

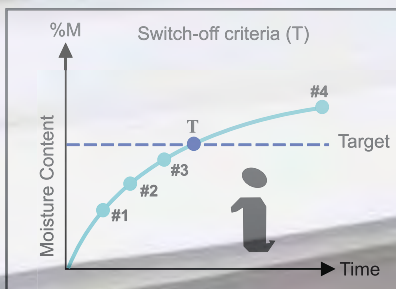
**The Uncompromising Halogen Moisture Analyzer**  
'Loss on Drying' (LOD) principle.



**Solution Simplified**

[www.aczel.com](http://www.aczel.com)





#### Reliability:

Reliable result depend on correct methodology. Select the **Intelligent** function, key in the reference value and maximum time. The MB swiftly calculates appropriate switch-off criteria automatically to match the reference value to the last decimal place. You can save this parameter as method. **Intelligent** efficiently develops your method and saves your time in any area where different products are analyzed for their moisture content. You could never match your reference value with such accuracy.



#### Ultra Fast and uniform heating

Uniquely designed circular halogen Lamp and reflectors ensures utmost rapid heating, shorten the measurement time. Well engineered heating chamber ensure uniform heating to achieve exact result with exceptional reproducibility.

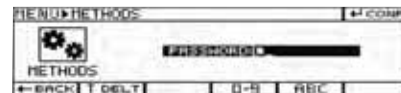
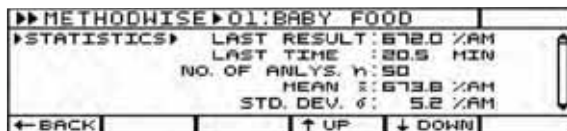


#### Brilliant Monotech sensor with analytical precision

The outstanding measurement performance of MB series is based on brilliant analytical weighing Technology MONOTECH, The forth decimal place is not displayed but is measured and used in calculation of highly precise results, gives highest measurement security.

## Accurate & Reproducible

# Compliance & Data Storage



A clever solution with extensive data storage and statistics

## Password protection

Password protection prevents the unauthorized access to the stored data & alterations of the parameters thus ensuring its security

```

ABC PHARMA CO.
LAB UNIT 3

26/04/2017      3:00PM

Model no.      MB 200
Serial no.     M2120057
Ver. no.       1.1.3.25
User ID        MAUSAM
-----
Method 19:     NACL
                PRODUCTION LINE
                AFTER FILTERATION

Start of analysis:
Automatic      NO
Stability      YES
Delay          YES
Heating        STANDARD
Temp           110°C
Sw-off         MANUAL
Stndby        OFF
Compile        OFF
Init. wt.      +3.918g
-----
00:00:30hrs + 0.078 %M
00:01:00hrs + 0.098 %M
00:01:30hrs + 0.102 %M
00:02:00hrs + 0.159 %M
00:02:30hrs + 0.178 %M
-----
Fn1. wt.      +3.911 g
00:07:30hrs + 0.178 %M

Last wt. cal  26/04/2017

Last temp cal 31/12/2017

Name:
.....
26/04/2017      03:07PM
    
```

```

-----
Temperature Calibration
Report
-----
ACZET

Model no.      MB 200
Serial no.     M2120057
Ver. no.       1.1.3.25
User ID        MAUSAM
Temp cal count 13
Temp cal date  26/04/2017
Temp cal time  01:59PM
-----

Temperature1 100°C:102°C
Temperature2 200°C:200°C

Temp calibration done

-----
26/04/2017      02:30PM
Name:
.....
-----
    
```

## Statistics

This can display and print statistics for the last 9999 measurements based on each Method or Batch making this ideal intelligent instrument for R&D and production both.

## Memory of each moisture Determination

This being the most versatile feature of MB series, it stores last 1000 moisture determination, so you can almost, this make it UNIQUE and DEPENDABLE, no other instrument can offer this.

## ISO / GLP Compliance print out

It helps identify how, when & who performed the moisture determination. Highly flexible user configurable print format with 4 user id makes it customized yet traceable document compliance to SOP's and GLP regulation making MB series most acceptable in each industry. Every successful calibration is been tracked and record with incremental numbers also last successful calibration report stored in memory makes it even more flexible and convenient.

With New Aczet Moisture Analyzer you can achieve higher productivity without compromising on quality in your daily business challenges, since it is DIVERSE and can be programmed according to the individual needs of the person. No matter if user is from quality assurance, manufacturing or R&D.

## DATA STORAGE

This unique feature offers the flexibility to choose the data storage mode as per user application.



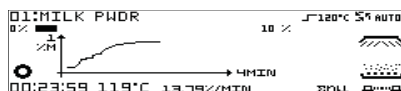
## Connectivity

Do you have to note down the measurement of several dozen samples each day? Not any more. Thanks to the standard USB, RS 232 and Ethernet interfaces, you can now conveniently transfer your data to your PC or Print it out directly on Aczet Data Printer.

## Sample identification is traceable

Graphical display with alpha numeric keypad and PS2 keyboard made user interface very easy for defining user specific text for each sample.

**Method Wise** storage allows the user to store 25 moisture determination results in each method, user can store such 40 methods. Method wise storage is suitable for application in R&D or Quality Assurance where there are more number of different product (samples) to be analyzed.



## Graph

Thanks to graphical display, user can view auto updating graph of the drying process with the change in the moisture level.

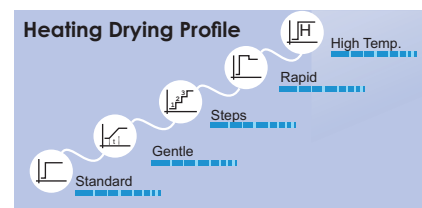


Features like **Weight in assist** and **Standby temperature** helps user to improve reproducibility by taking same amount sample weight and similar climatic state for each moisture determination.

**Batch wise** storage allows use to create 100 batches & store maximum 1000 data with no restriction on the data storage per batch. Batch wise storage is suitable for application in production where there are more numbers of samples to be analyzed for the same product.

Multiple Units of measurement results %M, %D, %R (ratio), Gm/Lt, %M Atro, %D Atro make it most convenient for each user.

**Various heating profile** like Standard, Gentle, Rapid, Step & High temperature heating makes it possible to analyzer any product sample.



Various switch off criteria from Auto, Manual, Timed, User Defined G/T, User Defined %U/T, Intelligent makes it possible to achieve utmost accurate result.

## Weighing Application :

Use a moisture analyzer because they analyze the moisture content a much faster method. Moisture analyzers are used in many industries such as food, chemical, pharmaceutical and plastics. Moisture content determination in food is of particular importance as the moisture content influences the quality and shelf life of a product

MB Series is compact in shape & big in performance. It performs all the major Functions of routine moisture analysis with following features.

**HACCP, FDA, GLP, GMP compliance** & in sewage treatment plants.



## Want to Match Reference Value ?



Moisture : is everything that evaporates upon heating

**Certainly !**



### **Temperature Calibration Kit**

CTK 01 series operates precisely and with the highest accuracy. The control thermometer is intended to checking whether the temperature on the drying chamber complies with the temperature value indicated on moisture analyzer's display.

### **Functions:**

- Automatic switch off preventing accidental discharging of batteries.
- "HOLD" function (lock of displayed value).
- Power supply by batteries 3x1.5V. CE marking.

## Technical Parameters :

Model	MB 54	MB 40	MB 50	MB 120	MB 200
<b>Measurement Value</b>					
Readability	0.0001%	0.001%	0.001%	0.001%	0.001%
Repeatability (sd) for initial sample wt. = 2g	0.05%	0.1%	0.1%	0.1%	0.1%
Repeatability (sd) for initial sample wt. = 10g	0.02%	0.03%	0.03%	0.03%	0.03%
<b>Evaluation</b>					
Display units of Measurement	%M, %D, %R (ratio), Gm/Lt, %M Atro, %D Atro				
Statistics	Method wise for each individual 40 methods or Batch wise for each individual 100 batches for last 9999 results				
Data Storage	Last 1000 Moisture Determination results				
<b>Weighing Balance</b>					
Max. Sample weight	50 g	40 g	50 g	120 g	200 g
Minimum Sample Weight	0.2 g	0.2 g	0.2 g	0.2 g	0.2 g
Readability	0.1 mg	0.001 g	0.001 g	0.001 g	0.001 g
Pan Size (Ø mm)	95 mm				
<b>Drying Unit</b>					
Heating Source	Infra Red Halogen				
Temperature range	30°C to 175°C (Optional 250°C)				
Temperature increment	1°C				
Heating Profile	Standard, Gentle, Rapid, Steps, High Temperature				
<b>Switch off Criteria</b>	Auto Manual, User Def Weight / Time, User Def % Unit / Time, Intelligent				
<b>User Support</b>					
Auto Method Development	Intelligent				
Method Memory	40				
Batch Memory	100				
Method Designation	Alpha Numeric				
Serial Number	Yes				
Compile	Yes (Method Linking)				
Standby Temperature	30°C to 100°C				
Display	Graphical Display with LED backlight				
Data Interface	RS 232C Bidirectional, USB Ethernet, PS2				
Print	GLP / GMP Compliant, User Configurable				
<b>Quality Management</b>					
Test	Weighing and Heater				
Weight in Assist	Yes				
Password	Method, Setting, Print Format, Data Delet, Calibration, Drying				
<b>Miscellaneous</b>					
Power Supply	230V/50Hz or 115V/60Hz				
Power Consumption (Watt)	Max 415				
Housing Dimension mm	211 (W) x 342 (D) x 178 (H)				
Weight Approx	5kg				
Packing Dimension mm	325 (W) x 390 (D) x 285 (H)				

### Optional Accessories



Optional Temp. 250°C



Aluminum Dish



Temperature Kit



Statistical Printer



Test Weights



Battery Backup Unit

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