# **Humidity- / Moisture Meters**

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UNIT

### Serie PCE-MB

#### Balance to measure moisture

The PCE MB series Balance has been specially designed for the use in industry or in the laboratory. This balance provides a quick and accurate method to measure moisture content and dry weight analysis of a wide range of products and materials. The user's manure will provide you with advice and numerous practical examples. The two quartz halogen lamps (200W each) provide constant, even drying of the sample at a temperature pre-selected by the operator.

Only a small sample needs to be placed on the balance, then close the cover, press the button and read the result (content of humidity; dry content). This instrument is the perfect tool in determining moisture and dry content weight accurately. You will be able to determine the humidity of materials of a range of materials, such as plastic, wood pellets, pharmaceutical substances, tobacco, tea, cereals, etc.

Checking moisture and dry content can be done three different ways:

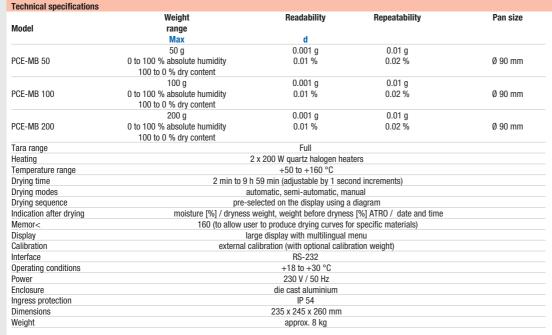
- Automatic: drying material until it has a constant weight
- · Semi-automatic: drying stop when loss per unit of time goes below theoretical value
- Manual: adjusting the timer between 2 minutes and 9 hours and 59 minutes

The balance includes:

- RS-232 adaptor to transfer data to a PC
- External calibration function
- 230 V power supply

The image to the right shows the balance opened to allow the sample material to be placed inside and tested. The process which determines the moisture content begins once you close the cover and press the start button.











#### Contents

PCE- MB series moisture analyser balance (one of the available models), 10 aluminium sample pans, power cord and user's manual

Model No.	Description
PCE-MB 50	Moisture Analyser Balance PCE-MB 50
PCE-MB 100	Moisture Analyser Balance PCE-MB 100
PCE-MB 200	Moisture Analyser Balance PCE-MB 200

#### **Optional accessories**

CAL-PCE-MB PCE-SB RS232-USB PCE-BP1 PCE-MB-PS PCE-MB-GF ISO Certificate Software with RS-232 data cable RS-232 to USB Adaptor Thermal printer with RS-232 data cable Pack of 50 aluminium sample pans Pack of 100 fibreglass



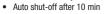
Thermal printer PCE-BP1

## FMW, FMC, FME & FMD

Material moisture meters to determine the absolute moisture of materials such as wood, paper, building materials, etc.

Accurately measure the percentage of absolute moisture of all types of materials. The FMW-B and the FMW-T meters measure just by touching the surface, and will not damage to surface of the material. The FMC, FME and FMD6 models can be used with an array of optional sensors. All the units contain calibration curves for wood, building materials and paper. Once the material's corresponding curve has been selected, you will be able to determine the absolute moisture in a more accurate way that with conventional moisture meters. The FMD 6 has the possibility of being programmed with other curves and in addition to that, transmit to a computer the readings to allow the data to be analysed.

- · Very user friendly
- · High reproduceability (hybrid sensor)
- Highly accurate
- Choice of an array of sensors

















Technical specifications				
Model	FMW-B/FMW-T	FMC	FME	FMD 6
Measurement without damaging	g materials yes	-	-	-
Measurement with external sen	sor contact points -	yes	yes	yes
Temperature measurement	-	-	yes, with optional sensor	yes, with optional sensor
Compensation of temperature	-	manual	yes, automatic with optional sensor	yes, automatic with optional sensor
Reference calibration curve AS/	NZS1080.1 -	yes	yes	yes
Wood calibration curves for type	es of wood (4) -	yes	-	-
Calibration curves for wood	yes	-	yes	yes
Calibration curves for building n	naterials yes (only for FMW-B)	yes	yes	yes
Calibration curves for paper	-	yes	yes	yes
Adjustable calibration curves	-	-	-	yes, 10 lines
Memory	50 values	-	50 values	2000 values
Statistic, data, hour	-	-	-	yes
Real time clock	-	-	-	yes
Software	-	-	-	yes
Measuring depth	FMW-B: 10 to 30 mm; FMW-T: 10 to 20 mm	depending on the sensor	depending on the sensor	depending on the sensor
Measurement range in %	2 to 30 (wood)	5 to 99 (wood)	5 to 99 (wood)	5 to 99 (wood)
	0 to 60 (building materials)	0 to 99 (building materials)	0 to 99 (building materials)	0 to 99 (building materials)
Resolution in %	0.1	0.1	0.1	0.1
Accuracy in %	0.5	0.3	0.2	0.2
Temperature range (material)	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
Battery life	yes	yes	yes	yes
Power	9 V battery pack	9 V battery pack	9 V battery pack	3 batteries (1.5 V)
Dimensions	180 x 80 x 35 mm	160 x 80 x 30 mm	160 x 80 x 30 mm	190 x 100 x 34 mm
Weight	260 g	260 g	260 g	300 g
MPA approval	no	no	yes	yes

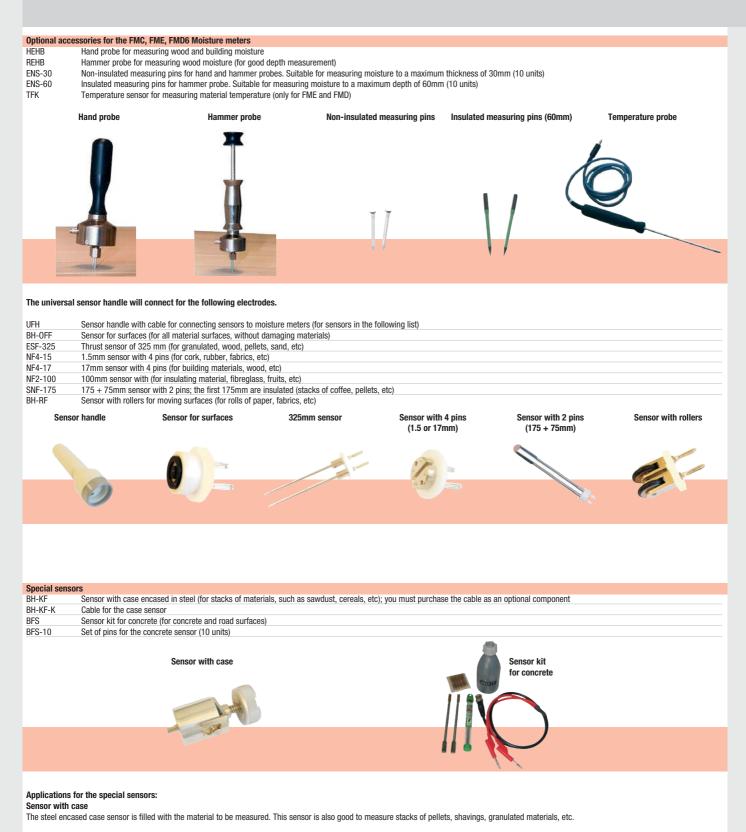
### Contents

Absolute moisture meter (according to the model ordered), user's manual

M	odel No.	Description	
FI	MW-B	Wood and building material moisture meter (without damaging materials), sensor on the back side	
FI	WW-T	Wood and building material moisture meter (without damaging materials), sensor on the front side	
FI FI	or the FMC, FM MC ME MD 6	WE and FMD moisture meters you should oder optional sensors corresponding to the model of meter you have: Wood and building materials moisture meters with manual temperature compensation Wood and building material moisture meters with automatic temperature compensation Material moisture meters with automatic temperature compensation and software included	



## **Humidity- / Moisture Meters**



#### Concrete measurement kit

The concrete measurement kit measures at a maximum depth 10cm. The probes are introduced into previously made holes.