## PCE-333

### Compact moisture meter for wood

The wood moisture meter is very user friendly. You only need to press the electrode pins of the moisture meter into the surface of wood (if possible, it is better to measure a sample splinter or a fresh piece of wood) and read the absolute humidity of wood in the luminous band shown in percent. The measurement of wood or firewood is important to have good combustion. The firewood that has more than 20 % of absolute humidity has to much humidity and must be dried for about a year. You will also be able to use this moisture meter when you are purchasing wood. With this meter, you will be sure that you are buying wood and not water.

- The moisture meter is very user friendly and quick to measure the moisture levels in wood
- Solid enclosure and pocket-sized
- No recalibration necessary (conductivity principle with a curve preset in the unit)
- Illuminated band for readability


**Technical specifications**

| | |
|---|---|
| Measurement range | wood: 6 to 44 %<br>0.2 to 2.0 % |
| Accuracy | wood: ±1.0 %<br>other materials: ±0.05 % |
| Indicator | LCD |
| Pointer | integrated in the enclosure,<br>electrode pin length: 8 mm |
| Type of wood | the unit is integrated the type of wood<br>more currently in Europe |
| Operating temperature | 0 to 40 °C |
| Operating relative humidity | 0 to 85 % r.h. |
| Power | 3 batteries (CR2032) |
| Enclosure | ABS plastic |
| Dimensions | 130 x 40 x 25 mm |
| Weight | 129 g |

**Contents**

PCE-333 moisture meter, batteries and user's manual

| Model No. | Description |
|---|---|
| PCE-333 | Humidity Meter |

## PCE-WP 21

### Moisture meter for construction materials

The PCE-WP 21 moisture meter is an instrument which allows you to measure moisture in concrete. The measurement procedure operates according to the dielectric constant principle or the principle of high frequency. To obtain a result it is only necessary to select the type of concrete and place the electrode pins on the surface. The electromagnetic radiation seeps through the surface up to 50 mm in depth. The reading will be that of the moisture content at 50 mm below the surface of the concrete.

- Measures moisture to a depth of 50 mm
- Very user friendly and displays the result quickly
- No preparation required before measuring
- LCD with battery life indicator


**Technical specifications**

| | |
|---|---|
| Measurement range | 1 to 8 % of absolute moisture |
| Accuracy | ±0.7 % |
| Resolution | 0.1 % |
| Measurement depth | approx. 50 mm |
| Display | 3.5 digit LCD |
| Power | 9 V battery pack |
| Dimensions | 165 x 80 x 30 mm |
| Weight | 500 g |

**Contents**

PCE-WP 21 moisture meter, battery back, carrying case and user's manual

| Model No. | Description |
|---|---|
| PCE-WP 21 | Moisture Meter |

## PCE-WT1

### Sawdust moisture meter

Sawdust moisture meter PCE-WT1 is a state-of-the-art electronic device for measuring moisture contents in sawdust, scobs, wood shavings, slivers and other finely crumbled wood waste. The moisture meter measures the resistance of a compressed sample of sawdust. This moisture meter is extremely easy to use.

- Measure moisture of sawdust
- Simple to use, quick result
- Measurement is done in two steps
- Heavy housing
- ISO Certificate (optional)


**Technical specifications**

| | |
|---|---|
| Measurement range | 8 to 50 % (absolute) |
| Resolution | 0.1 % |
| Accuracy | ±1 % of reading |
| Volume of chamber | 120 $cm^3$ |
| Pressure range | 0.2 MPa |
| Temperature compensation | adjustable |
| Indicator | LCD |
| Power | 9 V battery pack |
| Operating temperature | 0 to +50 °C |
| Dimensions | 300 x 215 x 65 mm |
| Weight | 950 g |

**Contents**

PCE-WT1 moisture meter, srewdriver, battery, carring case and user's manual

| Model No. | Description |
|---|---|
| PCE-WT1 | Moisture meter |

**Optional accessories**

| | |
|---|---|
| CAL-PCE-WT1 | ISO Certificate |

## 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
- Auto shut-off after 10 min

**FMW**


**FMC**


**FME**


**FMD 6**


**Technical specifications**

| Model | FMW-B/FMW-T | FMC | FME | FMD 6 |
|---|---|---|---|---|
| Measurement without damaging materials | yes | - | - | - |
| Measurement with external sensor 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 types of wood (4) | - | yes | - | - |
| Calibration curves for wood | yes | - | yes | yes |
| Calibration curves for building materials | 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

| Model No. | Description |
|---|---|
| FMW-B | Wood and building material moisture meter (without damaging materials), sensor on the back side |
| FMW-T | Wood and building material moisture meter (without damaging materials), sensor on the front side |

For the FMC, FME and FMD moisture meters you should oder optional sensors corresponding to the model of meter you have:

| | |
|---|---|
| FMC | Wood and building materials moisture meters with manual temperature compensation |
| FME | Wood and building material moisture meters with automatic temperature compensation |
| FMD 6 | Material moisture meters with automatic temperature compensation and software included |

**Optional accessories for the FMC, FME, FMD6 Moisture meters**

| | |
|---|---|
| HEHB | Hand probe for measuring wood and building moisture |
| REHB | Hammer probe for measuring wood moisture (for good depth measurement) |
| ENS-30 | Non-insulated measuring pins for hand and hammer probes. Suitable for measuring moisture to a maximum thickness of 30mm (10 units) |
| ENS-60 | Insulated measuring pins for hammer probe. Suitable for measuring moisture to a maximum depth of 60mm (10 units) |
| TFK | Temperature sensor for measuring material temperature (only for FME and FMD) |

**Hand probe**

**Hammer probe**

**Non-insulated measuring pins**

**Insulated measuring pins (60mm)**

**Temperature probe**

**The universal sensor handle will connect for the following electrodes.**

| | |
|---|---|
| UFH | Sensor handle with cable for connecting sensors to moisture meters (for sensors in the following list) |
| BH-OFF | Sensor for surfaces (for all material surfaces, without damaging materials) |
| ESF-325 | Thrust sensor of 325 mm (for granulated, wood, pellets, sand, etc) |
| NF4-15 | 1.5mm sensor with 4 pins (for cork, rubber, fabrics, etc) |
| NF4-17 | 17mm sensor with 4 pins (for building materials, wood, etc) |
| NF2-100 | 100mm sensor with (for insulating material, fibreglass, fruits, etc) |
| SNF-175 | 175 + 75mm sensor with 2 pins; the first 175mm are insulated (stacks of coffee, pellets, etc) |
| BH-RF | Sensor with rollers for moving surfaces (for rolls of paper, fabrics, etc) |

**Sensor handle**

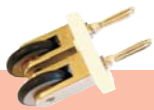
**Sensor for surfaces**

**325mm sensor**

**Sensor with 4 pins (1.5 or 17mm)**

**Sensor with 2 pins (175 + 75mm)**

**Sensor with rollers**



**Special sensors**

| | |
|---|---|
| BH-KF | Sensor with case encased in steel (for stacks of materials, such as sawdust, cereals, etc); you must purchase the cable as an optional component |
| BH-KF-K | Cable for the case sensor |
| BFS | Sensor kit for concrete (for concrete and road surfaces) |
| BFS-10 | Set of pins for the concrete sensor (10 units) |

**Sensor with case**

**Sensor kit for concrete**

**Applications for the special sensors:**

**Sensor with case**

The steel encased case sensor is filled with the material to be measured. This sensor is also good to measure stacks of pellets, shavings, granulated materials, etc.

**Concrete measurement kit**

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