



Operating the moisture indicator meter

General information before the indicator measurement

1. The moisture level is an average value influenced by the moisture on the outside and inside of the material. Wipe off visible moisture or water and leave it to dry for a few minutes before measuring.
2. Other constituents can also affect the measurement. Before measuring, the surface must be free of paint residues, dust and the like.
3. Hold the meter as far back as possible to avoid the influence of moisture on your hand.
4. The meter is not intended to measure metal or other materials that conduct particularly well. When processed materials (e.g. nails, screws, cables, pipes etc.) are near the sensor, the measured values will increase significantly.
5. If the ball probe is placed in the corner of walls, the value will be higher because two or three surfaces are within measuring range. Keep a minimum distance of 8 to 10 cm from other surfaces to prevent interference.
6. Place the ball probe on smooth surfaces; rough surfaces give inaccurate measurements.
7. The measuring depth of the device is 20 to 40 mm. Depending on the density of the material, measurement of the innermost part may not be possible. When the material is less than 2 cm thick, the moisture value will not be as accurate. This is due to the influence of surrounding materials.
8. The ball probe must stand perpendicular to the surface to be measured.
9. The density of the material to be measured is an important factor for the measured value. The measured value increases as the density increases.
10. The calibration value for this device is for comparative measurements. It compares measured values with a reference value. The reference value is established by measuring equivalent or identical material on a dry surface. When the measurements are much higher than the reference value, it can logically be inferred that the measured surfaces are damp. This procedure gives an indication of water damage and helps to identify leaking spots and places with high humidity.

Moisture indicator measurement

Switch on the measuring device with the ON/OFF button (5). The device is automatically in "HOLD" mode (12), meaning that no measurement is possible at this moment.

1. The measuring device must be calibrated each time it is switched on. To calibrate, hold the measuring device in the air so that no objects are touched. The minimum distance from all surfaces must be 8 to 10 cm. Press the MEAS key (7) to start calibration.
2. During calibration the LCD screen shows <CAL>.
3. After calibration the LCD screen (6) shows the current humidity level (10). This value must be below 0.5. If this is not the case, switch off the measuring device and repeat the calibration.
4. Hold the ball head (1) of the humidity sensor at a right angle to the surface. The measured value is shown on the display.
5. Move the measuring device to take measurements over a larger surface. The LCD screen should show the current measured value as well as the maximum (11) and minimum measured values (16).
6. If required, press the MEAS key to freeze the values on the display. "HOLD" appears on the display, in addition to the last measured value.
7. The measured values remain on the LCD screen for a further 60 seconds before the measuring device switches off automatically.
8. Alternatively, in "HOLD" mode press the MEAS key to continue measuring.

Optional setting of the alarm function

- The meter also gives three non-numeric measured values: "DRY" (13) (dry), "RISK" (14) (risk) and "WET" (15) (wet).
- When the moisture status is on "RISK" and "WET", the meter will sound alarm signals.
- At "RISK" level, the meter will emit a sound approximately every second.
- At "WET" level, the meter will beep three times every second.

- According to the default settings, a moisture reading of < 30 is indicated by "DRY"; 30 - 60 by "RISK"; and above 60 by "WET".
- Different materials have different tolerances for moisture. For more information, consult the technical data section below.

To optionally set the threshold values:

1. When the "HOLD" icon (12) is displayed, press SET to enter alarm mode.
2. The "RISK" icon will flash. Press UP (2) or DOWN (4) to set the lower threshold value for "RISK". The value can be adjusted from 0 to 50. Press SET to confirm your choice.
3. The "WET" icon will flash. Press UP (2) or DOWN (4) to set the lower threshold value for "WET". The value can be adjusted from 50 to 100. Press SET to confirm your choice.
4. The LCD screen returns to the start screen.
5. The threshold value is stored permanently until it is changed.

The above examples and measured values give an indication and are therefore not binding. They are intended to help when working with the indicator meter. Because there are various factors that can influence a measurement, we cannot give a guarantee of the correctness of a measurement. The conclusions you draw from a measured value are at your own responsibility. They depend on experience and the conditions of the measurement.

For an accurate moisture measurement it is advisable to contact Droogspecialist in Bodegraven for an accurate calcium carbide (CM) measurement.

Construction material	Moisture range (unit)	Moisture status
Gypsum	< 30	DRY
	30 - 60	RISK
	> 60	WET
Cement	< 25	DRY
	25 - 50	RISK
	> 50	WET
Wood	< 50	DRY
	50 - 80	RISK
	> 80	WET

