

Feuchtemessgerät

Bedienungsanleitung



Durch das kapazitive Messverfahren lässt sich die Feuchtigkeit in Beton, Holz, Estrich und vieler weiterer Baustoffe ohne Beschädigung oder Zerstörung messen.

Technische Merkmale

- Ø Zeigt den Feuchtigkeitsgehalt der Materialien schnell an
- Ø Eindringtiefe ca. 20-40mm.
- Ø Batterieentladungsanzeige
- Ø Automatische Abschaltung
- Ø MAX-/MIN-Funktion
- Ø Mess- und Haltefunktion
- Ø LCD-Anzeige mit weißer Hintergrundbeleuchtung

Technische Daten

| | |
|-------------------|------------------|
| Technische Daten: | |
| Sensortyp: | Metall-Sphäroid |
| Messbereich: | 0 - 100 |
| Max Auflösung: | 1 |
| Batterie : | 9V-Batterie |
| Abmessungen: | 180 mm×45mm×35mm |
| Gewicht: | 180g |

Beschreibung der Frontseite



- Sensor/Messkugel
- ② MAX-/MIN-Taste
- ③ LCD-Anzeige
- ④ Einschalt-/Ausschalttaste
- ⑤ Hintergrundbeleuchtungstaste
- ⑥ MEAS-Taste
- ⑦ Batteriedeckel

Tastenfunktion

Ein-/Aus-Taste

Schaltet das Messgerät ein oder aus.

MEAS-Taste

Das Gerät beginnt mit dem Messen nach Drücken der MEAS-Taste. Wenn Sie die Taste loslassen, erscheint das Anzeigesymbol “HOLD” auf dem LCD-Display und zeigt somit an, dass der aktuelle Messwert festgehalten wird.

MAX-/MIN-Taste

Während der Durchführung von Messungen drücken

Sie die MAX-/MIN-Taste und das 'MAX'-Symbol erscheint auf dem LCD-Display. Das Messgerät beginnt den MAX-Wert zu messen. Drücken Sie erneut die Taste, das 'MIN'-Symbol erscheint auf dem LCD-Display und das Messgerät beginnt den MIN-Wert zu messen. Drücken Sie zwei Sekunden lang die MAX-/MIN-Taste, um diesen Modus zu verlassen.

Hintergrundbeleuchtungstaste

Schaltet die Hintergrundbeleuchtung ein oder aus.

Gebrauch

Halten Sie das Gerät so, dass Ihre Hände nicht in der Nähe der runden Messsonde sind. Drücken Sie die Taste "MESA" und halten Sie die Kugel auf die zu messende Oberfläche. Kugel und Messfläche sollten sich berühren. Immer senkrecht zur Oberfläche messen, Randbereiche(Winkel) meiden.

Sobald Metall in Baustoffen vorhanden ist, kann es zu Fehlmessungen kommen.

Nachfolgende Informationen dienen als Hinweis. Das Instrument ist ein Indikator zur schnellen Messung.

Baustoffe:

| | | |
|---------------|----------------|--------------------|
| Gips | 0..35 | trocken |
| | 36..60 | halbtrocken |
| | 61..100 | feucht |
| Zement | 0..25 | trocken |
| | 26..50 | halbtrocken |
| | 51..75 | feucht |
| | Über 75 | nass |


Umrechnungstabelle zur Anzeige

| Anzeige | Gips(mineralgeb.) | Estrich | Zement | Holz |
|---------|-------------------|---------|--------|-------|
| 15 | | | | |
| 20 | | | | 10,00 |
| 25 | | | | 12,00 |
| 30 | 0,25 | | | 15,00 |
| 35 | 0,30 | | 2,50 | 17,00 |
| 40 | 0,40 | | 2,65 | 20,00 |
| 45 | 0,65 | | 2,85 | |
| 50 | 1,00 | | 3,20 | |
| 55 | 1,40 | | 3,55 | |
| 60 | 1,70 | | 4,00 | |
| 65 | 1,90 | | 4,30 | |
| 70 | 2,05 | | 4,70 | |
| 75 | 2,20 | | 5,10 | |
| 80 | 2,35 | | 5,45 | |
| 85 | 2,50 | | 5,75 | |
| 90 | 2,65 | | 6,10 | |

Die Angaben sind Cirka-Angaben. Je nach Hersteller können die Angaben für Baustoffe entsprechend abweichend.

Die Angaben für Holz wurden durch Brennholz(Kiefer) ermittelt.

Batteriewechsel

Wenn das Symbol “  ” auf der LCD-Anzeige erscheint, wechseln Sie bitte die Batterie. Öffnen Sie das Batteriefach und ersetzen Sie die leere Batterie durch eine neue.

Moisture Meter
Instruction Manual



Non-Contact
Moisture Meter

0.33



Measuring range:
0 - 100 g/kg

Hold the instrument as near
to the task as possible.

The instrument should be
held at an angle of 50° to
the surface to be measured.

The NON-Contact Moisture Meter is an electronic dampness indicator with a measuring process

working on the principle of high frequency measurement. The instrument is used for non-destructively tracing dampness in building materials of all kinds as well as for detecting damp distribution in walls, ceilings and floors. It is particularly suitable for pre-testing the readiness of building materials for covering prior to CM measurement.

Features

- Ø Quickly indicate the moisture content of materials
- Ø Depth of penetration about 20-40mm.
- Ø Low battery indication
- Ø Auto Power Off
- Ø MAX/MIN Function
- Ø Measure and HOLD Function
- Ø White Backlit LCD Display

Specification

| |
|-----------------|
| Specifications: |
|-----------------|

| | |
|------------------|------------------|
| Sensor Type : | metal spheroid |
| Measuring Range: | 0 to 100 |
| Max Resolution: | 1 |
| Battery : | 9V battery |
| Dimensions : | 180 mm×45mm×35mm |
| Weight: | 180g |

Adjustment

The instrument is calibrated fully electronically and readjustment is not necessary.

Safety remarks

These is a risk of injury if the metal ball comes into contact with live parts. Do not use the instrument in the immediate vicinity of older equipment or equipment equally sensitive to high frequencies (e.g.functioning medicinal equipment).Use the instrument only for measuring the dampness in hardened building materials by bringing the ball into contact with the surface.

Instrument Check

Hold the instrument as near to the back as possible. Press the “MESA” button and hold the instrument with the ball in the air. The displayed value must be between -5 and +5.

Front Panel Description



- Metal Ball

- ② MAX/MIN Button

- ③ LCD Display
- ④ Power ON/OFF Button
- ⑤ Backlight Button
- ⑥ MEAS Button
- ⑦ Battery Cover

Button Function

Power Button

Turn the meter power ON or OFF.

MEAS Button

Press the MEAS button, the instrument will start measuring. Release this button the “HOLD” icon will appear on the LCD indicating that the current reading is being held.

MAX/MIN Button

When taking measurements, press MAX/MIN Button, the ‘MAX’ icon will appear on LCD display and the meter will begin keeping track of MAX value. Press the button again, ‘MIN’ icon will appear on LCD display and the meter will begin keeping track of MIN value. Press MAX/MIN button for two seconds to exit this mode.

Backlight button

Turn the backlight on or off.

Operation

Hold the instrument as near to the back as possible. Press the “MEAS” button and use the ball to scan the surface under investigation. The ball must be in firm contact with the material. To obtain the best results, the instrument should be held at an angle of 90° to the surface to be measured.

Note:

Do not take measurements on metallic linings!

In corners or recessed areas a distance of ca. 8-10 cm from the edge/recess must be maintained.

If there is any metal in substructure (constructional steel, channels, pipes, plaster rails, etc.) and with normal coverings, the display jumps to ca. 50 digits for otherwise dry surroundings.

It is only possible to reach a conclusion about the absolute dampness in wt-% or the dampness in CM-% if the normal drying out process has taken place (e.g. not

during or shortly after the use of drying agents or heat guns). If there is not a roughly normal variation in dampness between the surface and the interior, too low a measured value may be indicated.

The raw density of the material being measured has a noticeable affect. Basically, the value displayed with dry and damp building materials increases correspondingly with increasing raw density.

The values given in the table below are indicative and non-binding. Please bear in mind, when evaluating the measured value displayed on the NON-Contact Moisture Meter with respect to the material, that it is not a dampness measurement qualified to VOB or the relevant special sit regulations.

All information and tables in these operating instructions concerning permissible or common dampness conditions in practice as well as the general definition of terms are taken from the technical literature. The manufacturer of the instrument can thus not give any guarantee for the correctness of this information. The conclusions to be drawn from the result of measurements by each user depend upon the individual circumstances and his experience gained from professional practice.

Construction material:


| | | |
|---------------|-----------------|-----------------|
| Gypsum | 0..35 | dry |
| | 36..60 | half-dry |
| | 61..100 | wet |
| Cement | 0..25 | dry |
| | 26..50 | half-dry |
| | 51..75 | wet |
| | above 75 | all wet |

Converting table

| LCD | Gypsum(mineral) | Screed/Cement | Wood |
|-----|-----------------|---------------|-------|
| 15 | | | |
| 20 | | | 10,00 |
| 25 | | | 12,00 |
| 30 | 0,25 | | 15,00 |
| 35 | 0,30 | 2,50 | 17,00 |
| 40 | 0,40 | 2,65 | 20,00 |
| 45 | 0,65 | 2,85 | |
| 50 | 1,00 | 3,20 | |
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| 65 | 1,90 | 4,30 | |
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This information is a roughly indication. For wood the results are determined by pine tree.

Battery replacement

If the icon “  ” appears on the LCD display, it indicates that the battery should be replaced. Open the battery case and replace the exhausted battery with new battery.

