

User manual





humimeter M30 **universal material moisture meter**

Operation and handling

Switching on: Press the  button for three seconds.

Changing the calibration curve:  or  key.

Switching on the display lighting: Press the  button briefly; the lighting switches off automatically after approx. 20 seconds. Pressing any key activates the lighting again and prolongs the switch-off time to 4 minutes.

Switching off: Press the  key for five seconds; the device switches off after releasing the key. After approximately four minutes the device switches off automatically.

Measuring procedure

Switch on the instrument by pressing the  key for 3 seconds.

Select the appropriate calibration curve using the arrow keys.

Hold the device in one hand and press it onto the material well-settled (4 kg compacting pressure).

The material pile has to be at least 10mm high!

The display shows the water content immediately (large numbers).



Calibration curves

Name	Description
empty 1 to 10	10 free calibration curves
reference	<i>! Only for checking the instrument !</i>

- **There are 10 free calibration curves available. These calibration curves can be used for measuring special products.**
- **First of all the calibration curves have to be created!**
- **On request Schaller GmbH can create customer-specific calibration curves for your products.**

Design of the device



Menu level overview



Type selection menu

Next calibration curve
Previous calibration curve
Power off



Store menu

Watch last log
Save new value
Power off



Main menu

Switch lower
Switch upper
Open this menu / Enter

Keypad symbols

Measuring window:

- Rolling Menu
- Power ON / OFF
- Switch upper
- Switch lower
- Save
- Hold
- Autolog
- Watch saved data
- Enter supplier's data

Menu:

- Enter
- Switch upper
- Switch lower
- Exit
- Enter numbers
- Enter letters
- Next or right
- Left
- Yes
- No
- Shift
- OK

<i>Edit Logs</i>	<i>Options</i>
Manual Logs	Date/Time
Auto Logs	Emission ratio
Clear Logs	Datalog Time
	Language
<i>Print Logs</i>	Unlock
Last Log	°C/°F
All Logs	Calibrate
Clear Logs	Userlevel
	Light On time
<i>Send Logs</i>	Auto Off time
Manual Logs	Materialcalib.
Auto Logs	Adjust
Clear Logs	Password
	Reset
	<i>Status</i>

Changing the batteries

First of all remove the rubber protection cover. For that, hold the rubber protection cover at the upper side and pull it over. If your humimeter is provided with an optional USB port, remove the protection cap before. Press with your finger onto the arrow of the battery cap and pull it back.

Remove the empty batteries. Put four new 1.5 Volt AA Alkaline batteries into the device. Make sure that the position of the battery poles is correct. Press down the batteries and close the cap.



Exemption from liability

For miss-readings and wrong measurements and of this resulting damage we refuse any liability. This is a device for quick determination of moisture. The moisture depends on multiple conditions and multiple materials. Therefore we recommend a plausibility check of the measuring results. Each device includes a serial number and the guarantee stamp. If those are broken, no claims for guarantee can be made.

Care instructions

Do not drop the instrument or expose it to excessive temperatures. Only clean the instrument with a **dry** lint-free cloth. The instrument is not waterproof. The intervals for checking the instrument depend on your operational demands and the required level of accuracy. For a fee, we can carry out a calibration in our factory. On demand you will also receive a calibration certificate.

Checking the calibration

We recommend checking the calibration of your humimeter M30 regularly. For this check the device has to show a temperature between 20.0 and 26.0°C. Switch on the instrument and select the calibration curve „reference“ using the arrow keys. Hold the humimeter M30 in one hand right up in the air. Please make sure that there is no material or anything similar in front of the measuring plate. The shown measuring value should range between **3.0** and **3.6**. If the shown value is out of this range, you have to carry out a calibration (see instructions below).

Calibration

By a zero point adjustment you can correct a too high deviation of the calibration check.

For that please proceed as follows:

Press the left key twice to reach the menu level. Navigate to the menu item „Options“ using the arrow keys. Confirm by pressing the **↵** button.

Select the menu item „Calibrate“ using the arrow keys and confirm by pressing the **↵** key.

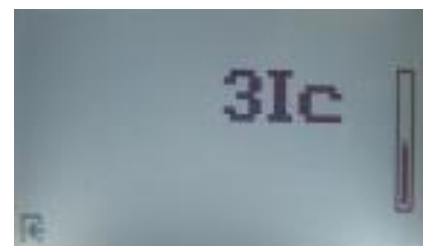
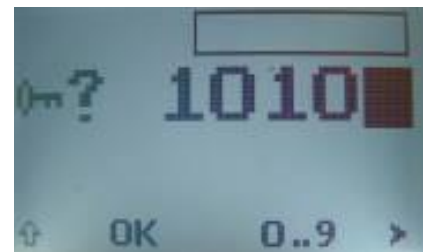
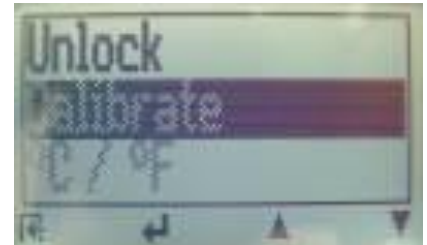
This menu item has to be unlocked. For that you have to enter the 4-digit serial number of your humimeter. You can find the serial number on the top right edge of your display a short time after switching on the instrument, or on the sticker in the battery slot.

Press the third button as long as the black bar stands on the first digit of the serial number. After a waiting time of a few seconds the device accepts the entered digit. Now the other 3 digits have to be entered. When the 4-digit number has been entered correctly (see picture), press the **↵** button to confirm.

Hold the humimeter M30 in one hand up in the air and make sure that there is no material in front of the measuring field (black plate). Now press the second button (**✓**) with one finger.

The calibration procedure will take a few seconds. During that time, the instrument has to be held up in the air and the measuring field must NOT be touched.

The device is ready when the shown picture on the right disappears automatically.



!IMPORTANT! Please read

Common reasons for incorrect measurements:

- **It is obligatory that the measuring instrument rests on an even measuring area without any air space!**
- **The measuring depth of your humimeter M30 is 30 mm**
- **Please ensure that during the measurement there is NO metal or anything similar within an area of 50 mm below the measured material**
- **Wrong compacting pressure; please note the instructions (4 kg)!**
- **Product temperature out of application range**

The application range is between 0°C and +40°C

- **Discrepancy in temperature between device and material**

Please ensure that the device and the material under test are being stored at nearly the same temperature before measuring. A high temperature difference has a negative effect on the stability of the measurement results

Technical data

Measuring depth	30 mm
Resolution	0.1% water content ; 0.1°C ; 0.3°F
Operation temperature range	0°C to +40°C
Storage temperature	-20°C to +60°C
Temperature compensation	automatically
Memory for measured values	approx. 10.000 measuring values
Menu languages	English, German, Italian, French, Spanish, Russian
Power supply	4 pcs. 1.5 Volt AA Alkaline batteries (for approx. 900 measurements)
Switch off time	after approx. 4 minutes
Power consumption	60 mA (with display lighting)
Display	128 x 64 matrix display, with LED backlighting
Dimensions	147 x 75 x 30 mm
Weight	260g (incl. batteries)
Protection class	IP 40
Scope of supply	humimeter M30, 4 pieces 1.5Volt AA Alkaline batteries, rubber protection cover, user manual
Options	data interface module incl. software and cable, mobile printer (only with option 1)