

Moisture meter

Operating Manual

humimeter GE1

Screed moisture meter



78,0 °F | 6,16% | 456kg/m³ | -27,3td | 0,64aw | 51,9%r.H. | 14,8%abs | 100,4g/m² | 09m/s | 4,90Ug/l | 1

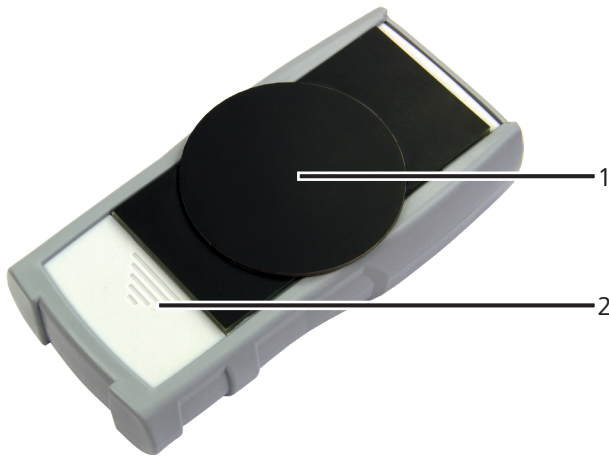
Your humimeter GE1 at a glance

The main unit



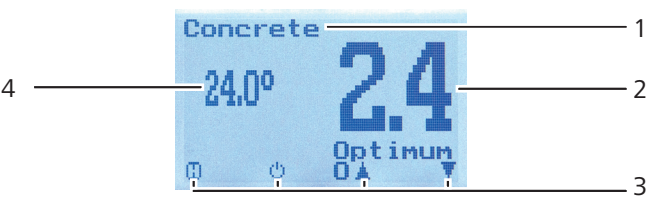
No	Name
1	Display
2	Keypad
3	Rubber protection cover

Rear of the main unit



No	Name
1	Sensor surface
2	Battery compartment

The Display



No	Name
1	Calibration curve
2	water content in % (" 6.4 How moisture is defined ")
3	Display-Symbols
4	Temperature display

The display symbols

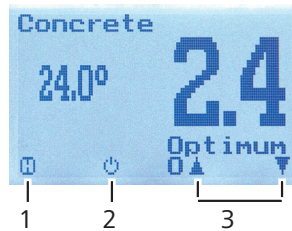
Symbol	Name
	Enter
	Up
	Down
	Back
	Enter numbers
	Enter letters
	Continue / go right
	Left
	Yes

Symbol	Name
	No
	Change input level
	OK
	Change menu
	On/off button, display light
	Hold function

The menu

The device has two different menus: product selection and main menu.

Product selection menu



No	Name
1	Hold measuring value (see "5.3 Hold function - freeze measured value display")
2	Display illumination / device on/off
3	For changing the calibration curve

Main menu

The main menu includes the following menu items:

- **Options:**
Adjustment, Language, Unlock, °C/°F, Operating level, Material calibration, Password, Reset
- **Status**

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1. Introduction

1.1 Information about this operating manual

This operating manual is designed to enable you to use the humimeter GE1 safely and effectively. It is part of the device, has to be stored nearby and must be easily accessible to users at all times.

All users are required to carefully read and make sure that they have understood this operating manual before using the humimeter GE1. All of the safety and operating instructions detailed in this manual have to be observed to ensure the safety of the device.

1.2 Limitation of liability

All of the information and instructions provided in this operating manual have been compiled on the basis of the current standards and regulations, the state of the art, and the extensive expertise and experience of Schaller Messtechnik GmbH.

Schaller Messtechnik GmbH does not accept any liability for damage associated with the following, which also voids the warranty:

- Non-observance of this operating manual
- Improper use
- Inadequately qualified users
- Unauthorised modifications
- Technical changes
- Use of unapproved spare parts

This fast measuring procedure can be affected by a range of different factors.

We, as the manufacturer, do not accept any liability for any incorrect measurements and associated consequential damage.

1.3 Symbols used in this manual

All of the safety information provided in this manual is shown with a corresponding symbol.



ATTENTION

It is essential to observe this warning. Non-compliance can lead to damage to property or equipment.



Information

This symbol indicates important information that enables users to use the device more efficiently and cost-effectively.

1.4 Customer service

For technical advice, please contact our customer service department at:

Schaller Messtechnik GmbH

Max-Schaller-Straße 99

A - 8181 St.Ruprecht an der Raab

Telephone: +43 (0)3178 28899

Fax: +43 (0)3178 28899 - 901

E-Mail: info@humimeter.com

Internet: www.humimeter.com



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2. For your safety

The device complies with the following European directives:

- Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS)
- Electromagnetic compatibility (EMC)

The device corresponds to state-of-the-art technology. However, it is still associated with a number of residual hazards.

These hazards can be avoided through strict observance of our safety information.

2.1 Proper use

- Easy to use device with external sensors for quickly measuring the moisture content of floor screed, concrete and other building materials.
- The device must only be used for taking measurements on the products defined in the following sections of this manual (see "[6. Calibration curve](#)").

2.2 Improper use

- The device must not be used in ATEX.
- The device is not waterproof and must be protected from water and fine dust.

2.3 User qualifications

The device must only be operated by people who can be expected to reliably take the measurements. The device must not be operated by people whose reaction times may be slowed due to, e.g. the use of drugs, alcohol or medication.

All persons using this device must have read, understood and follow the instructions provided in the operating manual.

2.4 General safety information

The following safety information has to be observed at all times to avoid damage to objects and injury to people:

- Remove the batteries if the device is not used for a prolonged period of time (4 weeks).
- Keep the measuring tips of the hand electrode or ram electrode away from your body throughout all activities.

Before your appliance is delivered, all technical features are checked and subjected to a thorough quality control. Each appliance is labelled with a serial number. This sticker must not be removed.

2.5 Warranty

The warranty does not apply to:

- Damage resulting from non-observance of the operating manual
- Damage resulting from third-party interventions
- Products that have been used improperly or modified without authorisation
- Products with missing or damaged warranty seals
- Damage resulting from force majeure, natural disasters, etc.
- Damage from improper cleaning
- Damage due to leaking batteries
- Damage resulting from improper strain (pressure, bending) of the insertion probe or the measuring head
- Damage by dropping the measuring head

3. On receipt of your device

3.1 Taking the device out of its packaging

- Take the device out of its packaging.
- Next, make sure that it is not damaged and that no parts are missing.

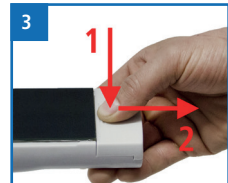
3.2 Making sure that all of the components have been included

Make sure that all of the components have been included by checking the package contents against the following list:

- humimeter GE1
- 4 pieces of AA Alkaline batteries
- Rubber protection cover
- Operating manual

3.3 Inserting batteries

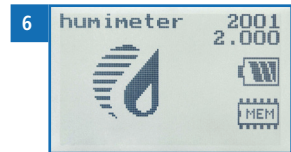
1. Remove the rubber protection cover. To do so, hold the rubber protection cover at the upper side and pull it over. If your device is provided with an optional USB port, remove the protection cap of the USB socket before (figure 1 and 2).
2. Take hold of the device with one hand, press your thumb onto the engraved area of the battery compartment (1) and drag downwards (2) (figure 3).
3. Insert the batteries with negative and positive terminals matching those indicated on the battery compartment. Press down the batteries so that they lay flat on the bottom of the housing (figure 4).
 - » As soon as all batteries have been inserted, the device switches on automatically.
4. Push the battery cover onto the housing until it clicks into place. Then mount the rubber protection cover onto the housing, beginning at the end where the battery compartment is situated (figure 5).



4. Using the device - Basics

4.1 Switching the device on

- Press the  button for 3 seconds.
- » The display will then show the status indicator (figure 6).
- » After inserting the batteries, the device switches on automatically.



4.2 Opening the main menu

4.2.1 With the simplified user activated

To do so: The device is switched off and the advanced user is deactivated (see "4.1 Switching the device on").

- Switch on the device (see "4.1 Switching the device on").
- While switching on, keep both the  and  buttons pressed.
- » The display will now show the main menu.

4.3 Selecting the calibration curve

To do so: The device has to be in the product selection menu (figure 7).

For an overview of the different calibration curve and the criteria for selecting them, please refer to "6. Calibration curve".

1. Press the  or  button to move from one product to the next **Or**
2. Press the  or  button for 3 seconds to open the calibration curve overview (figure 8).
3. Use the arrow keys to move from one calibration curve to the next
4. and keep any of them pressed to scroll through the types.
5. Confirm your selection by pressing 
 - » The calibration curve you selected will now be shown at the top of the display.



4.4 Carry out the measurement

- The measurement is described in chapter "5. The measuring process".

4.5 Measured value evaluation

Some calibration curves in the device are evaluated on the display in four stages depending on the humidity and the material. This evaluation is based on empirical values from Schaller Measurement GmbH. As the gradations may differ depending on the trade or operation, a plausibility check of the values is recommended.

The conditions with increasing moisture:

- » Dry
- » Optimum
- » Damp
- » Wet

The assessment points vary depending on the material!

4.6 Switch off the device

To do so: The device is in the product selection level or in the memory level. It is not possible to switch off the appliance at menu level.

- Press the button  for 3 seconds.

5. The measuring process

5.1 The measuring process with the main unit

5.1.1 Preparing a measurement

To do so: The device has to have nearly the same temperature than the product being measured. It is recommended to let your humimeter device adjust to the surrounding temperature for at least 30 minutes before the measurement.

1. Choose several representative positions suitable for the observation of floor screed/concrete.
 - » The concrete layer in these positions must be at least 30 mm thick.
 - » Make sure that no pipes, electrical lines or building grids are located at these positions.
2. If necessary, clean the measuring position with a wide spatula before measurement.
 - » The measuring device must rest flush and without an air gap.
 - » The measuring position must not be soiled by sand.
3. Switch on the device (see "4.1 Switching the device on").
4. Select the desired calibration curve (see "6. Calibration curve") by pressing  or  (see "4.3 Selecting the calibration curve").



5.1.2 Taking a measurement

To do so: The concrete layer must be at least 30 mm thick and the device has to have nearly the same temperature than the material.

- Take hold of the device with one hand and press it onto the cleaned measuring position with a pressure of approx. 4 kg (figure "11").
- When doing so, the sensor surface ("Rear of the main unit" on page 3) must be firmly resting on the measuring position.
- The device will now instantly display the moisture content on the display (figure "12").



- » The interpretation of the shown floor screed water content needs the experience of the user as well as the recommendations of the floor screed producer.
- » The thickness of floor screed can differ. The device always measures the supreme layer of 30 mm!
- » If the thickness of the floor screed is less than 30 mm, iron gratings, heating pipes and other metal can cause an incorrect measuring value. Therefore please look for a measuring position without any metal in the measuring field.
- » The device displays the average moisture value of the upper layer of 30 mm. The moisture of deeper layers may be considerably higher than that value.
- » The water content of deeper layers can only be determined by the CM method or in a drying chamber.
- » It is now possible to hold the displayed measured value on the device (see ["5.3 Hold function - freeze measured value display"](#)).

i

Information - Measuring accuracy

Take advantage of the non-destructive measuring method, which takes just seconds, and carry out measurements at several points.

i

Information - Incorrect measurements

Use the correct calibration curve for your measured material. This will help you avoid incorrect measurements (see ["10. Faults"](#)).

5.2 Information regarding the measurement

The degree of drying and the moisture dispersal can differ significantly. Therefore we recommend to find out the wettest area by effecting a large number of measurements. Then knock off the bottom layer of the wettest area and effect a final evaluation by drying in a drying chamber or via a CM device.

5.3 Hold function - freeze measured value display

The device is configured so that when a button is pressed, the display is frozen until the next button is pressed. This function can be used if the measured value is to remain on the display.

5.3.1 Using the Hold function

To do so: The device has to be switched on and be in the Data Log menu (see "The menu" Page 5).

- Press .
- » The current reading will be frozen. All of the four symbols will now be displayed as  (figure "13").
- To reactivate the frozen display, simply press any button.



6. Calibration curve

Calibration curves are available for the following products:

Calibration curve	Definition	Density range	Measuring range
Floor screed	cement screed normally compacted	1800 kg/m ³ bis 2200 kg/m ³	0,5 % bis 4,5%
Floor screed CM	cement screed normally compacted conversion CM %	1800 kg/m ³ bis 2200 kg/m ³	0,2 % bis 4,0%
Concrete	concrete normally compacted	2200 kg/m ³ bis 2600 kg/m ³	0,5 % bis 5,0%
Anhydrite floor	anhydrite floor screed normally compacted	ca. 2600 kg/m ³	0,5 % bis 5,0%
Digit			0 % bis 100%
Reference	! Only for testing the moisture meter !		

6.1 CM method

Another common method of determining the moisture of the bottom layer of screed is the CM method. The accuracy of the CM method depends on various parameters and is not suited for a comparison with the humimeter GE1 resp. for material calibration. In the following chart of producers of CM devices you can find comparative values of measurements in drying chamber in weight% to CM% for some concrete types. For comparative values for other concrete types, please refer to the user manual of your CM device.

Floor screed	Weight %	1.8	2.2	2.7	3.2	3.6	4.1	4.5	5.0
	CM %	0.7	1.0	1.4	1.8	2.1	2.5	2.9	3.2
Anhydrite floor	Weight %	0.1	0.3	0.6	1.0	1.4	1.8	2.2	2.5
	CM %	0.1	0.3	0.6	1.0	1.4	1.8	2.2	2.5
Concrete B15,B25,B35	Weight %		1.3	1.9	2.5	3.2	3.8	4.4	5.0
	CM %		0.3	0.8	1.3	1.7	2.2	2.7	3.2

6.2 Calibration curve "CM"

The calibration curve "Floor screed CM" is a conversion from water content into CM %. The measurement values of this calibration curve are guidance values and do not replace the CM method. However, via the non-destructive measuring process of the GF2 device the measurement is simplified. Subsequently a CM measurement according to the norm is recommended.

6.3 Calibration curve "Digit"

The digit calibration curve offers a dimensionless measuring range from 0 to 100, which corresponds to the total measuring range of the device. This calibration curve is destined for measuring special material.

The digit calibration curve is also suitable for detecting water or damp areas in the wall. The higher the shown value, the wetter the measured area.

very dry: 0 %

very wet: 100 %

NOTE: Also electric cables or pipes can cause a high digit value.

6.4 How moisture is defined

The device measures and shows the material moisture content. The moisture content readings are calculated in relation to the material's overall mass:

$$\%WG = \frac{M_n - M_t}{M_n} \times 100$$

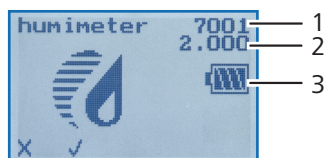
M_n : Mass of the sample with average moisture content

M_t : Mass of the sample with zero moisture content

%WG: Moisture content (in accordance with EN ISO 12570)

7. Checking the device's status

1. Open the main menu (see "4.2 Opening the main menu").
2. Select **Status**. To do so, press  or  and confirm by pressing .
 - » The display will then show the status indicator **humimeter**.
 - » The display will show the following information:



No.	Name
1	Serial number
2	Software version
3	Battery status

3. Confirm by pressing .
4. Press  to leave the main menu.

8. Configuring the device

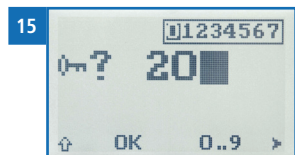
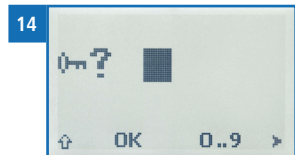
8.1 Selecting a language

1. Open the main menu (see "4.2 Opening the main menu").
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Language**. To do so, press  or  and confirm by pressing .
4. Navigate to the required language. To do so, press  or  and confirm by pressing .
 - » The setting has been saved.
5. Press  to leave the **Options** menu.
6. Press  to leave the main menu.

8.2 Activating options

To do so: Some of the options must be deactivated.

1. Open the main menu (see "4.2 Opening the main menu").
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Unlock**. To do so, press  or  and confirm by pressing .
 - » The display will now appear as shown in figure "14".
 - » On delivery, the four-digit password is the device's serial number.
4. **Inputting numbers:**
 Press and hold  to quickly scroll to the required number and either press it for 3 seconds or press  to confirm the selected number (figure "15").
5. **Moving back:**
 Press  to switch to another input level.
 To move back, press .
6. Confirm the four-digit password by pressing .



- » The setting has been saved.
 - » The **°C/°F**, **Userlevel**, **Materialcalibration**, **Password**, **Reset** options are now activated.
7. Press  to leave the **Options** menu.
 8. Press  to leave the main menu.

8.3 Deactivating options

Once the device has been switched restarted, the **°C/°F**, **Userlevel**, **Materialcalibration**, **Password**, **Reset** options will be deactivated again.

8.4 Selecting °C/°F

To do so: All of the options must be activated (see "8.2 Activating options").

1. Open the main menu (see "4.2 Opening the main menu").
 2. Select **Options**. To do so, press  or  and confirm by pressing .
 3. Select **°C/°F**. To do so, press  or  and confirm by pressing .
 4. Navigate to the required temperature scale, i.e. Celsius (°C) or Fahrenheit (°F). To do so, press  or  and confirm by pressing .
 - » The setting has been saved.
5. Press  to leave the **Options** menu.
 6. Press  to leave the main menu.

8.5 Configuring the material calibration function

The type calibration function is described in a separate operating manual.

8.6 Changing the password

To do so: All of the options must be activated (see "8.2 Activating options").

1. Open the main menu (see "4.2 Opening the main menu").
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Password**. To do so, press  or  and confirm by pressing .
 - » The display will show the current password.
4. Overwrite the current password. To do so, press and hold **0..9** to quickly scroll to the required number and either press it for 3 seconds or press  to confirm the selected number.

Moving back:

Press  to switch to another input level.

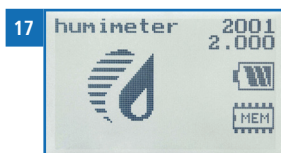
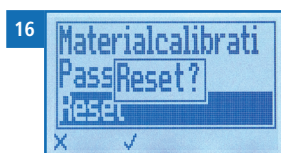
To move back, press .

5. Confirm the new four-digit password by pressing **OK**.
 - » The setting has been saved.
6. Press  to leave the **Options** menu.
7. Press  to leave the main menu.

8.7 Resetting the device to its factory settings

To do so: All of the options must be activated (see "8.2 Activating options").

1. Open the main menu (see "4.2 Opening the main menu").
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Reset**. To do so, press  or  and confirm by pressing .
- » The display will then show the message **Reset?** (figure "16").
4. Confirm by pressing .
- » The device will now be reset to its factory settings. All of your personal settings will be lost.
- » The display will show the status indicator **humimeter** (figure "17").
- » Resetting the device will not affect the saved measuring values.



9. Cleaning and maintenance

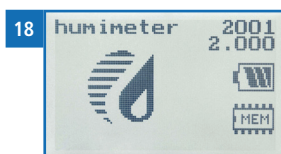
Regularly cleaning and maintaining the device will ensure that it will have a long service life and stay in good condition.

9.1 Changing the batteries

The device constantly monitors the charge level of the batteries. The current battery status is shown on the status screen.

If the battery's charge is very low, the battery symbol will be shown with an exclamation mark. In that case, the batteries must be changed immediately (figure "19").

For changing the batteries, see section "3.3 Inserting batteries".



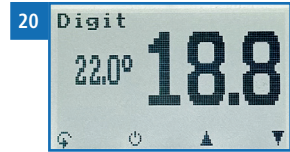
As the device's user, you are responsible by law for properly disposing of all used batteries, which must not be disposed of as domestic waste (Battery Directive).

9.2 Checking the calibration

The device's calibration should be checked every four weeks. When doing so, use the test plate supplied with the device.

To do so: The device and test plate must have a temperature of between 20 °C and 26 °C. Place the case on top of a wooden table. (The case must not be placed on top of or above metal.)

1. Switch on the device.
2. Use the arrow keys to select "Digit" under calibration curve (see "[4.3 Selecting the calibration curve](#)") (figure "20").
3. Take hold of the device with one hand and press it onto the top of the grey test plate with a pressure of approx. 4 kg (figure "21").
 - » The moisture content reading shown must be between 17.8 and 19.2.
 - » If the moisture value is outside this range, the moisture meter has to be adjusted (see "[9.3 Adjust the moisture meter](#)").



9.3 Adjust the moisture meter

To do so: The device must have a temperature of between 20 °C and 26 °C.

1. Open the main menu (see "4.2 Opening the main menu").

2. Select **Options**. To do so, press  or  and confirm by pressing .

3. Select **Adjust** (figure). To do so, press  or  and confirm by pressing .

4. The display will then show the message **Adjust?** (figure "23").

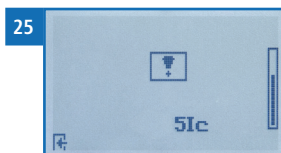
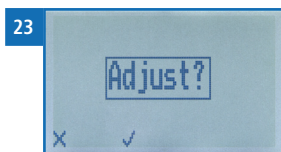
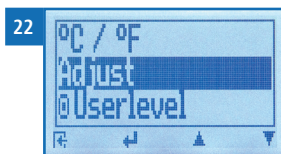
5. Lift the device up into the air with one hand. When doing so, there must be a minimum of 0.5 metres of empty space behind the sensor surface (black plate at the bottom of the device (figure "24").

6. Confirm by pressing .

- » The display will now appear as shown in figure "25".
- » The bar will run upwards. The device must be held up in the air throughout this entire process,
- » which only takes a couple of seconds to complete. When completed, the display will look as shown in figure "22".

7. Press  to leave the **Options** menu.

8. Press  to leave the main menu.



9.4 Care instructions

- Do not leave the device out in the rain. The device is not waterproof.
- Do not immerse the sensor in water.
- Do not expose the device to extreme temperatures.
- Protect the device from strong mechanical shocks and loads.

9.5 Cleaning the device



ATTENTION

Do not clean with fluids

Water or cleaning fluid getting inside the device can destroy the device.

- ▶ Only clean with dry materials.

Sensor surface

- Clean the sensor surface with a cloth.

10. Faults

If the measures listed below fail to remedy any faults or if the device has faults not listed here, please contact Schaller Messtechnik GmbH.

Fault	Cause	Remedy
Fehlmessung	Temperature of the material to be measured outside the application range: Material below 0 °C or above +50 °C	Use measured material with a temperature above 0 °C or below +50 °C
	Temperature difference between material and measuring device	Let the temperature adjust to the material being measured (permitted difference of max. 3 °C).
	Wrong calibration curve	Check whether you have selected the right calibration curve before taking a reading (see "6. Calibration curve").
	Uneven measuring position	The measuring device must rest flush and without an air gap on the measuring point.
	Material thickness too low	Please ensure a minimum material thickness of 30 mm.
	Incorrect contact pressure	Press the device against an even measuring point with a pressure of approx. 4 kg.
	Foreign materials in the measuring field	Wires, insulation and metal grids in the measuring field lead to measuring errors.
	Incorrect calibration due to changed material compositions	The device is not calibrated for admixtures of various kinds, e.g. insulation material or building chemical substances.
	Danger of condensation on the device or sensor in case of temperature change	Condensation will affect calibration and may damage the device. Make sure that the device is completely dry before switching it on.

11. Storage and disposal

11.1 Storing the device

The device must be stored as follows:

- Do not store outdoors.
- Store in a dry and dust-free place.
- Protect the device from sunlight.
- Avoid mechanical shocks/loads.
- Remove the batteries if the device is not used for a period of 4 weeks or longer.
- Storage temperature: -20 °C to +60 °C

11.2 Disposing of the device



Devices marked with this symbol are subject to Directive 2012/19/ EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE).

If the device is being operated outside the European Union, the national regulations on the disposal of such devices that apply in the country of use must be observed.



Electronic devices must not be disposed of as domestic waste.

The device must be disposed of appropriately using appropriate collection systems.

12. Device information

12.1 EC declaration of conformity

KONFORMITÄTSERKLÄRUNG DECLARATION OF CONFORMITY

Name/ Adresse des Herstellers: **Schaller Messtechnik GmbH**
Name/ address of manufacturer: **Max-Schaller-Straße 99**
A – 8181 St. Ruprecht

Produktbezeichnung: **humimeter**
Product designation:

Typenbezeichnung: **GE1 ; GF2 ; LM5 ; LM6 ; M05 ; M20 ; M30 ; M50 ; M13**
Type designation:

Produktbeschreibung: **Messgerät zur Bestimmung des Wassergehalts und
abgeleiteten Größen in diversen Materialien von der
Oberflächennähe bis in die Materialtiefe**
Product description **Measuring instrument for determining the water content
and derived variables in various materials from near the
surface to the depth of the material**

Das bezeichnete Produkt erfüllt die Bestimmungen der Richtlinien:
The designated product is in conformity with the European directives:

EMV - Richtlinie 2014/30/EC
RoHS - Richtlinie 2011/65/EG

EMC Directive 2014/30/EU
RoHS-Directive 2011/65/EU

Die Übereinstimmung des bezeichneten Produktes mit den Bestimmungen der Richtlinien wird durch die vollständige Einhaltung folgender Normen nachgewiesen:

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above-mentioned EC Directives:

EN 61326–1:2013 Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen
Electrical equipment for measurement, control, and laboratory use – EMC requirements

EN IEC 63000:2019-05 Technische Dokumentation zur Beurteilung von Elektro- und Elektronikgeräten hinsichtlich der Beschränkung gefährlicher Stoffe.
ersetzt / replaced
EN 50581:2012 *Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.*

Für das angeführte Produkt ist eine vollständige Dokumentation mit Betriebsanleitung in Originalfassung vorhanden.

For the mentioned product a complete documentation with manual of instruction in original version is available.

Bei Änderungen, die nicht vom Hersteller spezifiziert sind, verliert diese Konformitätserklärung die Gültigkeit.

In case of any changes not agreed upon with the manufacturer, this declaration of conformity loses its validity.

St. Ruprecht a.d. Raab, 31.07.2022

 **Schaller**
Messtechnik / humimeter.com
Schaller Messtechnik GmbH
MSE - Schaller Straße 99
AT-8180 St. Ruprecht a.d. Raab
www.humimeter.com | info@humimeter.com

.....
Bernhard Maunz
Rechtsverbindliche Unterschrift des Ausstellers
Legal binding signature of the issuer



DECLARATION OF CONFORMITY

Name/ address of manufacturer: **Schaller Messtechnik GmbH
Max-Schaller-Straße 99
A – 8181 St. Ruprecht**

Product designation: **humimeter**

Type designation: **GE1 ; GF2 ; LM5 ; LM6 ; M05 ; M20 ; M30 ; M50**

Product description **Measuring instrument for determining the water content
and derived variables in various materials from near the
surface to the depth of the material**

The designated product is in conformity with the following directives:

- **Electromagnetic Compatibility Regulations 2016 Great Britain**
- **RoHS-Directive 2011/65/EU Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment**

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above-mentioned Directives:

EN 61326–1:2013	Electrical equipment for measurement, control, and laboratory use – EMC requirements
EN IEC 63000:2019-05 replaced EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

For the mentioned product, a complete documentation with manual of instruction in original version is available.

In case of any changes not agreed upon with the manufacturer, this declaration of conformity loses its validity.

St. Ruprecht a.d. Raab, 31.07.2022


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.....
Bernhard Maunz
Legal binding signature of the issuer

12.2 Technical data

Display resolution	0,1 % water content, 0,5 °C/°F temperature
Measuring range	0 % bis 10 % water content
Operating temperature	0 °C bis +50 °C
Storage temperature	-20 °C bis +60 °C
Temperature compensation	Automatic
Measuring depth internal building moisture sensor	30 mm
Minimum material thickness internal building moisture sensor	30 mm
Power supply	4 x 1,5 Volt AA Alkaline batteries
Current consumption	60 mA (incl. display illumination)
Menu languages	German, English, French, Italian, Spanish, Portuguese, Czech, Polish, Russian, International
Display	128 x 64 illuminated matrix display
Device dimensions	147 x 75 x 30 mm
Device weight	265 g
Device IP rating	IP 40

13. Notes

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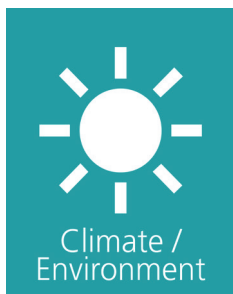
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Schaller Messtechnik develops, produces and sells professional moisture meters and turnkey solutions.

Schaller Messtechnik GmbH

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