

Moisture meter

Operating Manual

humimeter RH1

Air humidity and temperature
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

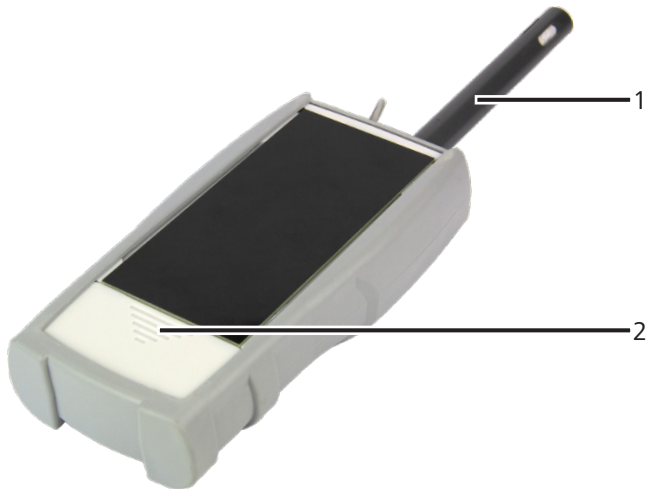
Your humimeter RH1 at a glance

The main unit



No.	Name
1	Air humidity and temperature sensor
2	Sensor tube
3	USB Port (optional)
4	Rubber protection cover
5	Keypad
6	Display

Rear of the main unit



No.	Name
1	Sensor tube
2	Battery compartment

The display



No.	Name
1	Calibration curve
2	Air humidity in % (see "7.1 Definition calibration curves")
3	Display symbols
4	Temperature display

The display symbols

Symbol	Name	Symbol	Name
	Enter		No
	Up		Change input level
	Down		OK
	Back		Change menu
	Enter numbers		Enter data
	Enter letters		View measurements
	Continue / go right		Delete measurements
	Left		On/off button, display light
	Yes		Save measured value
	Auto save		Hold function

The menus

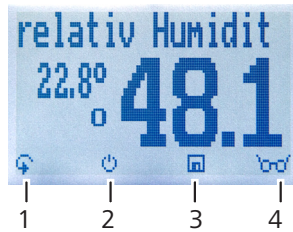
The device has three different menus: product selection, Data Log and main menu:

Product selection menu



No.	Name
1	Change menu
2	Display illumination / device on/off
3	For changing the calibration curve

Data Log menu



No.	Name
1	Change menu
2	Display illumination / device on/off
3	Save measured value
4	Show the last recorded values

Main menu

The main menu comprises the following menu items:

- **Edit Logs:**
Manual Logs, Auto Logs, Clear Logs
- **Print Logs:**
Last Log, All Logs, Clear Logs
- **Send Logs:**
Manual Logs, Auto Logs, Clear Logs
- **Options:**
Bluetooth, Date/Time, Log Time, Language, Unlock, °C/°F, BL On Time, Auto Off Time, Calibrate, Materialcalib., Online Send, 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 RH1 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 RH1. 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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Information

Your purchased measuring instrument can be calibrated, and the adjustment checked by using suitable test ampoules / calibration ampoules. For this purpose, use only the calibration solutions distributed by Schaller Messtechnik GmbH. You can download a calibration certificate for your test ampoules / calibration ampoules with the batch number printed on the ampoul from <https://www.humimeter.com/certificates/>.

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 for quickly measuring air humidity
- Easy to use device for automatic climate monitoring of rooms

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).
- In case of damages or loose parts on the device, remove the batteries and contact Schaller Messtechnik GmbH or your dealer.

All of the device's technical features have been inspected and tested before delivery. Every device has a serial number. Do not remove the tag with the serial number.

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

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:

3.2.1 Scope of supply

- humimeter RH1
- 4 pieces of AA Alkaline batteries

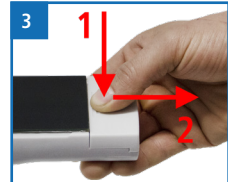
- Rubber protection cover
- Operating manual

Optional accessories:

- humimeter USB data interface module - USB flash drive with software and USB-cable or download using humimeter.com/software
- Calibration equipment and calibration ampoules - for checking the calibration of the humimeter RHx series
- Battery operated portable thermal printer (only possible together with humimeter USB data interface module) - described in a separate operating manual
- Bluetooth module - described in a separate operating manual
- Wall holder, mounted on humimeter RH1
- Wooden case

3.3 Inserting batteries

1. Remove the rubber protection cover. Pull it off at the bottom of the device and pull it over the sensor tube (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 (figure 5). Then mount the rubber protection cover onto the housing, beginning at the end where the sensor tube is situated (figure 2).



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 "9. Checking the device's status").
 - » After inserting the batteries, the device switches on automatically.

4.2 Selecting the calibration curve

To do so: The device has to be in the product selection menu.

For an overview of the different calibration curves and the criteria for selecting them, please refer to "7. Calibration curves".

1. Press the  or  button to move from one calibration curve to the next
Or
Press the  or  button for 2 seconds to open the calibration curve overview (figure 6).
 - » All product types that are enabled for your device type are displayed in black and can be selected.
2. Use the arrow keys to move from one product type to the next
3. and keep any of them pressed to scroll through the types.
4. Confirm your selection by pressing .
 - » The calibration curve you selected will now be shown at the top of the display.



4.3 Taking a measurement

- For information on how to take a measurement, see section "5. The measuring process".

4.4 Switching the device off

To do so: The device has to be in the product selection or Data Log menu. It is not possible to switch off the device when it is in the main menu.

- Press the  button for 2 seconds.

5. The measuring process

5.1 Taking a measurement

To do so: Let the device adjust to the surrounding temperature for at least one hour (see "5.2 Adjustment behaviour of the sensor").



- Position your humimeter RH1 at a location that is representative for the room climate.
- » Make sure to avoid draft and unnatural temperature changes.
- » Do not expose the device to direct sunlight.
- » Let the device adjust to its surroundings for at least one hour after changing its position.
- Now take the measured values shown on the display of the device (figure 7).
- » Once the reading has been taken, it can be saved on the device (see "6.2 Saving your readings manually" or "6.3 Auto save function (time-based)").

i Information - Messgenauigkeit

This rapid and non-destructive measuring procedure allows you to take moisture readings at a number of different points. When saving the individual readings, the device will automatically calculate the readings' average (see "6.2.2 Saving several readings (a measurement series) at the same time").

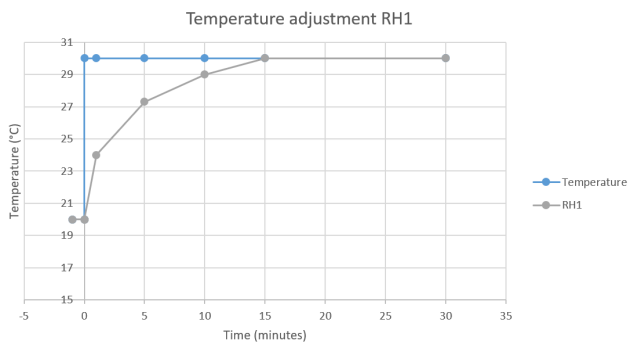
i Information - Incorrect readings

Always make sure to select the correct calibration curve for the material you are measuring. This prevents taking incorrect readings (see "12. Faults").

5.2 Adjustment behaviour of the sensor

In humidity and temperature measurement, several parameters are responsible for the adjustment behaviour (time until the actual measured value is displayed). The parameter responsible for the highest measuring error is a temperature discrepancy between the sensor resp. the whole measuring instrument and the material being measured resp. the air.

Therefore, allow your humimeter RH1 to adjust until the displayed temperature corresponds to the actual temperature. The graph below shows how long it takes to adjust from 20 °C to 30 °C.



To demonstrate the importance of temperature adjustment, the table below shows the measuring errors due to a temperature difference between the measuring instrument and the material being measured of only 1 °C / 1.8 °F, at different ambient temperatures.

	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)
10 % r.h.	+/- 0.7 %	+/- 0.6 %	+/- 0.6 %
50 % r.h.	+/- 3.5 %	+/- 3.2 %	+/- 3.0 %
90 % r.h.	+/- 6.3 %	+/- 5.7 %	+/- 5.4 %

At room temperature (20 °C / 68 °F) and an assumed humidity value of 50 % relative humidity a temperature difference between the measuring sensor and the material being measured of 1 °C / 1.8 °F causes a measurement error of 3.2 % relative humidity. A temperature difference of 3 °C / 5.4 °F would cause a measurement error of more than 10 % relative humidity.

6. Saving your readings

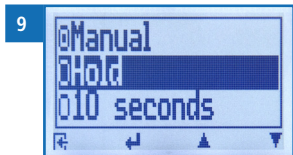
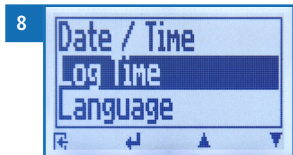
6.1 Hold function - Freezing the displayed values

The device can be configured in such a way that the information being shown on the display will freeze at the touch of a button until a new button is pressed. This function can be very useful when e.g. taking readings in spaces where it is not possible to see the display (e.g. overhead).

6.1.1 Activating the Hold function in the options menu

To do so: The device has to be switched on and be in the product selection menu.

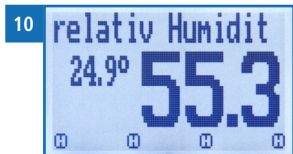
1. Press  twice or hold for 2 seconds.
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Log Time** (figure 8). To do so, press  or  and confirm by pressing .
4. Select **Hold** (figure 9). To do so, press  or  and confirm by pressing .
 - » The setting has been saved.
5. Press  to leave the **Options** menu.
6. Press  to leave the main menu.



6.1.2 Using the Hold function

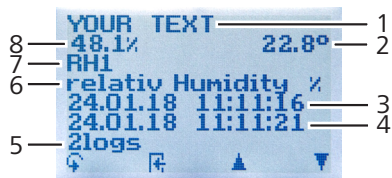
To do so: The device has to be switched on and be in the Data Log menu.

- Press .
- » The current reading will be frozen. All of the four symbols will now be displayed as  (figure 10).
- To reactivate the frozen display, simply press any button.



6.2 Saving your readings manually

All of the readings can be saved, edited and viewed on the device. The figure below shows the overview screen of a single saved series of measurements.



No.	Name
1	Name of the measurement series (editable)
2	Temperature (average)
3	Date & start time of the measurement series
4	Date & end time of the measurement series
5	Number of saved readings
6	Calibration curve
7	Device name
8	Relative air humidity (average)

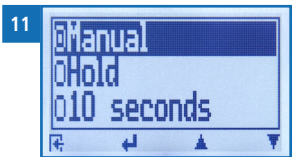
6.2.1 Saving individual readings

The device can be configured in such a way that the device will save a reading every time a button is pressed. This option (manual save function) is the device's default setting.

Activating the manual save function in the options menu

To do so: The device has to be switched on and be in the product selection menu.

1. Press  twice or hold for 2 seconds.
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Log Time**. To do so, press  or  and confirm by pressing .
4. Select **Manual** (figure 11). To do so, press  or  and confirm by pressing .

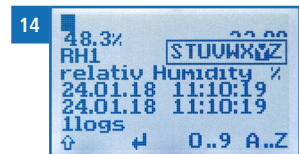
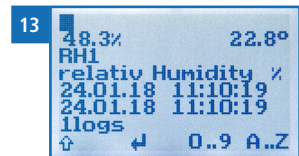


- » The setting has been saved.
- 5. Press  to leave the **Options** menu.
- 6. Press  to leave the main menu.

Using the manual save function

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

1. Press .
 - » The display will now appear as shown in figure 12 and the measured value will be preceded by the digit one.
2. Press  to enter a name for the saved reading and to finish the measuring process.
 - » The display will now appear as shown in figure 13.
3. The data you have inputted can be overwritten at any time.
4. **Inputting letters:**
Press and hold **A..Z** to quickly scroll to the required letter and either press it for 3 seconds or press  to confirm the selected letter (figure 14).
5. **Inputting numbers:**
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.
6. **Moving forward/back:**
Press  to switch to another input level. Press  or  to move forward or back.
7. Confirm your entry by pressing .
 - » The data you entered has been saved.



6.2.2 Saving several readings (a measurement series) at the same time

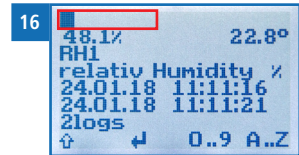
To do so: The device has to be in the Data Log menu (see "Data Log menu" page 5).

1. Take several readings (see "5. The measuring process").
2. To save a reading, press  as soon as the reading has been taken.



- » The display will now appear as shown in figure 15. The marked number shows the number of readings that have already been saved.

3. Press  to enter a name for the saved reading and to finish the measuring process.

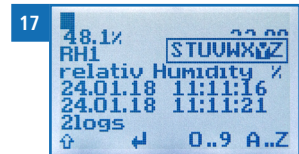


- » The display will now appear as shown in figure 16.

4. The data you have inputted can be overwritten at any time.

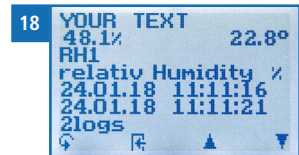
5. Inputting letters:

Press and hold **A..Z** to quickly scroll to the required letter and either press it for 3 seconds or press  to confirm the selected letter (figure 17).



6. Inputting numbers:

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.



7. Moving forward/back:

Press  to switch to another input level. Press  or  to move forward or back.

8. Confirm your entry by pressing .

- » The data you entered has been saved.

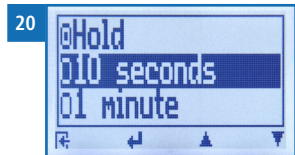
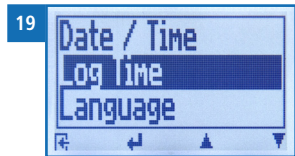
6.3 Auto save function (time-based)

The device can be configured in such a way that it will automatically save a reading (log) at a selected time interval.

6.3.1 Activating the auto save function in the Options menu

To do so: The device has to be switched on and be in the product selection menu.

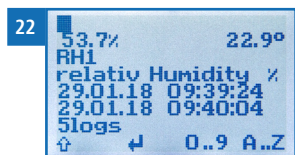
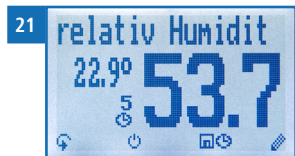
1. Press  twice or hold for 2 seconds.
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Log Time** (figure 19). To do so, press  or  and confirm by pressing .
4. Navigate to the desired time interval (figure 20). To do so, press  or  and confirm by pressing .
 - » The setting has been saved.
5. Press  to leave the **Options** menu.
6. Press  to leave the main menu.



6.3.2 Auto save function: Saving measured values

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

1. Press .
 - » The device will save a reading at the selected time interval. The number of data saves will increase by one every time a reading is saved. The display will now appear as shown in figure 21.
2. Press  to finish the measuring process and to enter a name for the saved readings.
 - » The display will now appear as shown in figure 22.
3. The data you have inputted can be overwritten at any time.



4. **Inputting letters:**

Press and hold **A..Z** to quickly scroll to the required letter and either press it for 3 seconds or press  to confirm the selected letter.

5. **Inputting numbers:**

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.

6. **Moving forward/back:**

Press  to switch to another input level. Press  or  to move forward or back.

7. Confirm your entry by pressing .

» The data you entered has been saved.

6.4 Viewing individual readings

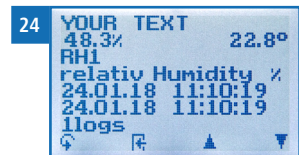
To do so: You must have saved a reading (e.g. **1 log**). The display will now appear as shown in figure 23.

1. Press .

2. Select the required reading. To do so, press  or .

» The display will now appear as shown in figure 24

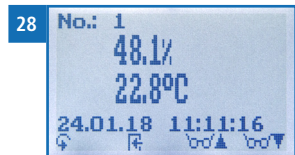
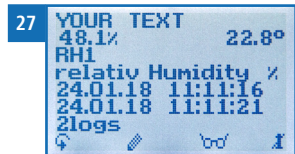
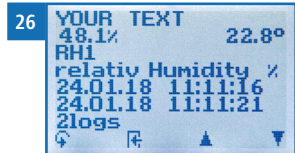
» Press  to leave this screen.



6.5 Viewing individual readings from a series of measurements

To do so: You must have saved a series of measurements (e.g. **2 logs**). The display will now appear as shown in figure 25.

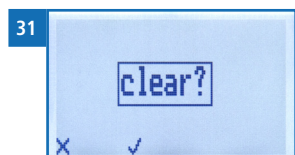
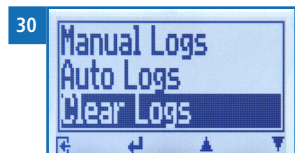
1. Press .
2. Navigate to the required measurement series. To do so, press  or .
 - » The display will now appear as shown in figure 26.
3. Press  to switch to another input level.
 - » The display will now appear as shown in figure 27.
4. Press  again.
 - » The display will now appear as shown in figure 28.
5. Navigate to the required reading (**No.: 1, No.: 2, No.: 3**). To do so, press .
6. Press  to leave this screen.



6.6 Deleting all measured values (data log)

To do so: You must have taken and saved one or several readings.

1. Press  twice or hold for 2 seconds.
2. Select **Edit Logs** (figure 29). To do so, press  or  and confirm by pressing .
3. Select **Clear Logs** (figure 30). To do so, press  or  and confirm by pressing .
4. The display will then show the message **clear?** (figure 31).
5. Confirm by pressing .
 - » The data log has been deleted.



6. Press  to leave the **Edit Logs** menu.

7. Press  to leave the main menu.

6.7 Deleting individual measurement series

To do so: You must have saved a measured value (e.g. **1 log**) or a series of measurements (e.g. **3 logs**). The display will now appear as shown in figure 32.

1. Press .

2. Select the required reading. To do so, press  or .

» The display will now appear as shown in figure 33.

3. Press  to switch to another input level.

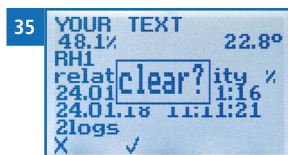
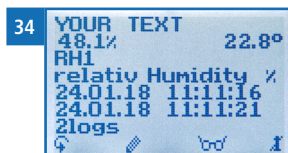
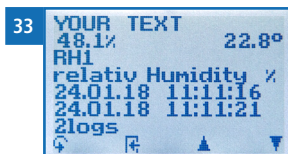
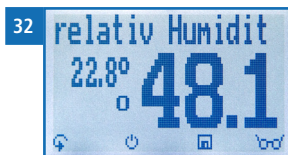
» The display will now appear as shown in figure 34.

4. Press .

» The display will then show the message **clear?** (figure 35).

5. Confirm by pressing .

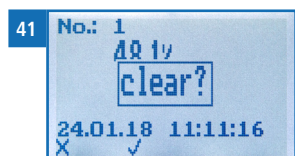
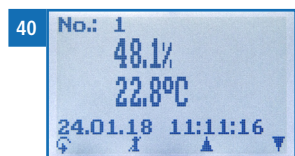
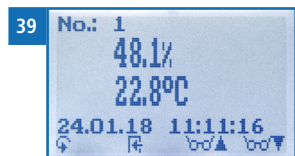
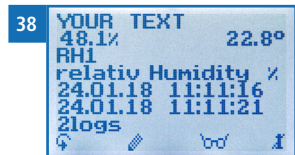
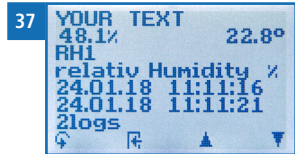
» The value has been deleted.



6.8 Deleting individual values from a single series of measurements

To do so: You must have saved a series of measurements comprising at least 2 logs. The display will now appear as shown in figure 36.

1. Press .
2. Select the required reading. To do so, press  or .
 - » The display will now appear as shown in figure 37.
3. Press  to switch to another input level.
 - » The display will now appear as shown in figure 38.
4. Press .
5. The display will now appear as shown in figure 39.
6. Select the required measured value. To do so, press  or .
7. Press  to switch to another input level.
 - » The display will now appear as shown in figure 40.
8. Press  to delete the value shown.
 - » The display will then show the message **clear?** (figure 41).
9. Confirm by pressing .
 - » The value has been deleted.
 - » Deleted measuring values will be transferred to the LogMemorizer (see "8. Using the LogMemorizer program") and have to be deleted separately there.



7. Calibration curves

Calibration curve	Definition	Unit	Measuring range
Absolute Humidity	absolute air humidity	g/m ³	0 to 130 g/m ³
Dew Point	Dew Point	°C °F	-55 °C to +60 °C -67 °F to 140 °F
Relativ Humidity	relative air humidity	% EMC	0 to 100 %
EMC Wood	Wood equilibrium moisture content (EMC)	% EMC	2 to 30 % (wood moisture)

7.1 Definition calibration curves

Absolute humidity

The absolute air humidity shows the contained amount of water in gramme per cubic metre of air. The absolute humidity is a direct degree for the amount of water vapour contained in a certain air volume. It shows how much condensate can precipitate or how much water has to be evaporated in order to obtain the desired humidity.

Dew Point

The dew point is the temperature to which the air that is not completely saturated with water vapour must be cooled so that it is completely saturated. When a room with the current relative humidity cools down to the dew point temperature, the water vapour begins to condense.

Relative humidity

Indicates the relationship between the current water vapour pressure and the maximum possible, the so-called saturation vapour pressure.

The relative humidity shows the degree the air is saturated with water vapour.
Examples:

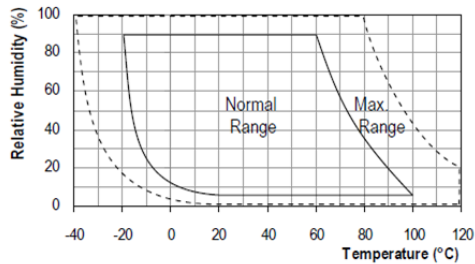
50% relative humidity: At the current temperature and pressure, the air is half saturated with water vapour. 100% relative humidity means that the air is totally saturated with water vapour. If the air has more than 100% humidity, the excessive humidity would condense or precipitate as mist.

EMC wood

Shows the wood equilibrium moisture content (for wood stored under these conditions) in % wood moisture and the temperature in the selected unit (°C or °F).

7.2 Application range

Within the normal application range (normal range) the accuracy of the device is as indicated. A long-term application beyond the normal application range (max. range), particularly at an air humidity of more than 80%, can lead to higher measuring errors (+3 % after 60 hours). Back in the normal application range, the sensor will return to the indicated accuracy automatically.



8. LogMemorizer

Note: Your device is equipped with the optional USB port or Bluetooth module.

8.1 LogMemorizer install/open

1. Install LogMemorizer on your PC or as an app on your smartphone. Alternatively, use LogMemorizer as a web app in your browser - no installation required.

Note: The web app is only for viewing measurement data that has already been uploaded to the cloud.

- » Download LogMemorizer from humimeter.com/software or scan the following QR codes for your applications.

Desktop version



Android app



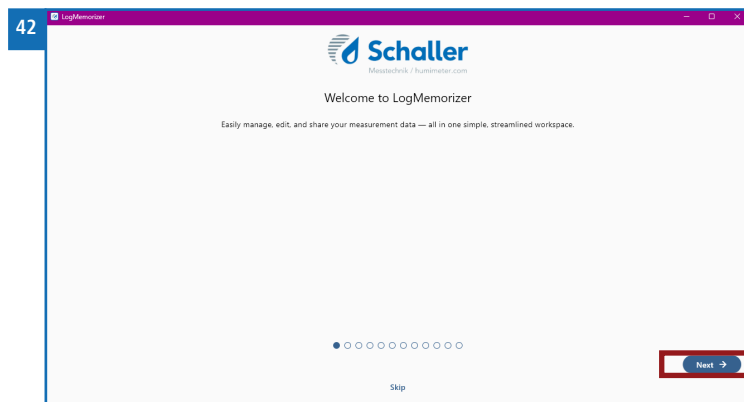
iOS app



Web app



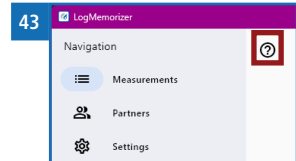
2. Open LogMemorizer after installation.
- » The interactive introduction will appear.



8.2 Introduction

Follow the introduction by clicking “Next.” This will help you learn all the important features. After the introduction, you will be taken to the user interface.

- » You can access the introduction again at any time by clicking the “?” icon.



8.3 Establishing the connection

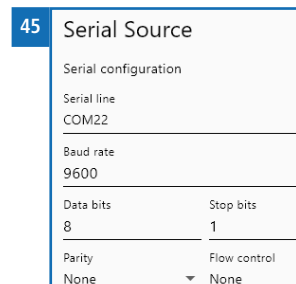
Note: A connection can only be established via LogMemorizer. Before you can transfer measurement data, you must establish a connection between LogMemorizer and your humimeter. Make sure the humimeter is turned on before establishing the connection.

1. Open LogMemorizer on your PC.
2. Go to “Select Source.”
3. Select the interface that your device has here.

8.3.1 USB

Note: Install the USB driver before using LogMemorizer with the optional USB interface.

1. Plug the USB Mini-B connector into the humimeter.
2. Select your humimeter under “Connection.” Do not change the baud rate unless instructed to do so by the manufacturer.
3. Click “Apply.”
 - » The connection has now been established.

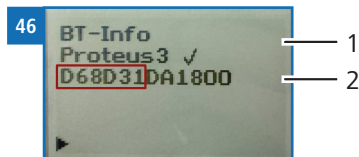


8.3.2 Bluetooth

- 1. LogMemorizer automatically starts searching for Bluetooth devices.
- 2. The humimeter devices you find will be shown in a list.
 - » The first 6 numbers of the Bluetooth MAC address are displayed for easier identification (see [Check Bluetooth status](#)).
- 3. Click on your humimeter.
- 4. Confirm the connection.

8.3.3 Check Bluetooth status

- 1. Press twice or hold  for 2 seconds.
- 2. Go to **Options/Bluetooth/Info**. To do this, press  or  and confirm by clicking .
 - » The status indicator appears on the display **humimeter**.
 - » The display shows the following information:

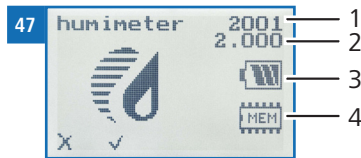


No.	Description
1	Name of the Bluetooth module
2	MAC address of the Bluetooth module

- 3. Confirm by clicking .
- 4. Press , to close the main menu.

9. Checking the device's status

1. Press  twice or hold for 2 seconds.
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 (figure 50):



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

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

10. Configuring the device

10.1 Turning on Bluetooth

The information on Bluetooth is provided in a separate operating manual.

10.2 Adjusting the date/time

1. Press  twice or hold for 2 seconds.
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Date/Time**. To do so, press  or  and confirm by pressing .
4. The display will now appear as shown in **figure 51**.

48

DD-MM-YY
24-06-18
hh:mm:ss
12:13:56
↑ OK 0..9 →

 - » The format for the date is **DD-MM-YY** (Day-Month-Year).
 - » The format for the time is **hh:mm:ss** (hour:minutes:seconds).
5. **Inputting numbers:**

49

01234567

DD-MM-YY
24-06-18
hh:mm:ss
12:13:56
↑ OK 0..9 →

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 52).
6. **Moving forward:**
To move forward between **DD-MM-YY** and **hh:mm:ss**, press .
7. **Moving back:**
Press  to switch to another input level. To move backward between **DD-MM-YY** and **hh:mm:ss**, press .
8. Confirm the date/time by pressing **OK**.
 - » The settings have been saved.
9. Press  to leave the **Options** menu.
10. Press  to leave the main menu.

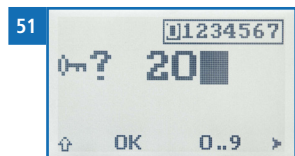
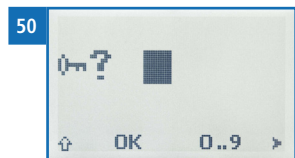
10.3 Selecting a language

1. Press  twice or hold for 2 seconds.
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.

10.4 Activating options

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

1. Press  twice or hold for 2 seconds.
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 53.
- » 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 54).
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, **BL On Time**, **Auto OFF Time**, **Calibrate**, **Materialcalib.**, **Online Send**, **Password**, **Reset** options are now activated.

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

10.5 Deactivating options

Once the device has been switched restarted, the °C/°F, **BL On Time**, **Auto OFF Time**, **Calibrate**, **Materialcalib.**, **Online Send**, **Password**, **Reset** options will be deactivated again.

10.6 Selecting °C/°F

To do so: All of the options must be activated (see "10.4 Activating options").

1. Press  twice or hold for 2 seconds.
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.

10.7 Reducing the device's power consumption

10.7.1 Configuring the display illumination time

To do so: All of the options must be activated (see "10.4 Activating options").

1. Press  twice or hold for 2 seconds.
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **BL On Time**. To do so, press  or  and confirm by pressing .
4. Select the required display illumination period (30 seconds, 2 minutes, 5 minutes,

10 minutes). 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.

10.7.2 Configuring automatic switch-off

To do so: All of the options must be activated (see "10.4 Activating options").

1. Press  twice or hold for 2 seconds.
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Auto Off Time**. To do so, press  or  and confirm by pressing .
4. Select the period of time you want the device to stay switched on (3 minutes, 5 minutes, 10 minutes). 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.

10.8 Calibrating the device

The calibration function is described in a separate operating manual.

10.9 Configuring the material calibration function

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

10.10 Online Send

To do so: All of the options must be activated (see "10.4 Activating options").

1. Press  twice or hold for 2 seconds.
2. Select **Options**. To do so, press  or  and confirm by pressing .
3. Select **Online Send**. To do so, press  or  and confirm by pressing .
 - » The setting has been saved.
 - » The device now automatically sends the stored measured value to the PC each time the memory button is pressed.
4. Press  to leave the **Options** menu.
5. Press  to leave the main menu.

10.11 Changing the password

To do so: All of the options must be activated (see "10.4 Activating options").

1. Press  twice or hold for 2 seconds.
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.

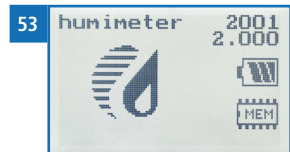
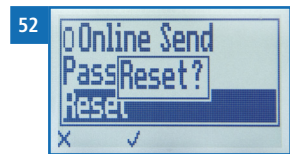
To move back, press .

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.

10.12 Resetting the device to its factory settings

To do so: All of the options must be activated (see "10.4 Activating options").

1. Press  twice or hold for 2 seconds.
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 55).
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 56).
 - » Resetting the device will not affect the saved measuring values.



11. Cleaning and maintenance

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

11.1 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 57).

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).



11.2 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.

11.3 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.

Plastic housing and sensor tube

Clean the plastic housing and the sensor tube with a dry cloth.

Air humidity and temperature sensor

The air humidity and temperature sensor cannot be cleaned. In case of a polluted sensor please contact your dealer.

12. 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
Measuring error	The temperature is outside the operating temperature: lower than -10 °C or higher than +60 °C	Only use the device in temperatures between -10 °C and +60 °C.
	Measurement error due to too short temperature adjustment time	Let the device adjust to the surroundings (see " 5.2 Adjustment behaviour of the sensor ").
	Sources of heat or cold that do not correspond to the surrounding temperature	Reposition your device at a location that is representative for the room climate.
	Wrong calibration curve	Check whether you have selected the right calibration curve before taking a reading (see " 7. Calibration curves ").
	Dripping water or sprayed water	Direct contact of the sensor with dripping or sprayed water will destroy it.
	Irreversible damage of the sensor due to aggressive gases	Please contact your dealer.
	Condensation caused by a change in temperature	Condensation on the sensor interferes with the calibration. Let the device adjust to the surrounding temperature.
	Polluted air humidity and temperature sensor	Please contact your dealer.
	Foreign particles on the sensor	Please contact your dealer.

Fault	Cause	Remedy
Data transfer to Log-Memorizer failed	Interface has not been configured	The interface only has to be configured once. To do so, press the F1 key on your computer and read the Help file for your LogMemorizer program.

13. Repair

If your humimeter needs repair, please pack it securely for transport and send it to:

Schaller GmbH

Max-Schaller-Straße 99

A - 8181 St.Ruprecht an der Raab

Download the repair form at humimeter.com/reparatur. Please fill out the form completely and enclose it with your package. This will allow us to clearly identify your repair request and process it quickly.



WARNING

For safety reasons, deeply discharged, damaged, or swollen rechargeable or non-rechargeable batteries are not allowed to be sent. Rechargeable and non-rechargeable batteries must be removed from the device before sending.

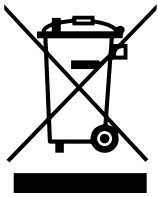
14. Storage and disposal

14.1 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

14.2 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.

15. Device information

15.1 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: **RH1 ; RH2 ; RH2 AW ; RH5 ; RH5.1 ; RH5.2 ; RH6 ; RHL ;
SW1**

Type designation:

Produktbeschreibung: **Messgerät zur Bestimmung der rel.Feuchte und
abgeleiteter Messgrößen**

Product description **Measuring instrument for determining relative humidity
and derived measured variables**

Das bezeichnete Produkt erfüllt die Bestimmungen der Richtlinien:

The designated product is in conformity with the European directives:

EMV - Richtlinie 2014/30/EC

EMC Directive 2014/30/EU

RoHS - Richtlinie 2011/65/EG

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
ersetzt / replaced
EN 50581:2012**

Technische Dokumentation zur Beurteilung von Elektro- und Elektronikgeräten hinsichtlich der Beschränkung gefährlicher Stoffe.
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



Messtechnik / humimeter.com
Schaller Messtechnik GmbH
MSE - Schaller / St. Ruprecht a.d. Raab 99
AT - 818 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: **RH1 ; RH2 ; RH2 AW ; RH5 ; RH5.1 ; RH5.2 ; RH6 ; RHL ;
SW1**

Product description **Measuring instrument for determining relative humidity
and derived measured variables**

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


 **Schaller**
Mess- und / -umformer.com
Schaller Messtechnik GmbH
Ma - Schaller Strasse 99
AT-8180 St. Ruprecht a.d. Raab
www.humimater.com | info@humimater.com
.....
Bernhard Maunz
Legal binding signature of the issuer

15.2 Technical data

Display resolution	0,1 % rel. air humidity, 0,1 °C / 0,3 °F dew point, 0,1 °C/ 0,3 °F temperature, 0,1 % EMC Wood
Measuring range rel. air humidity	0 % to 100 %
Calibration rel. air humidity	10 % to 90 %
Measuring range dew point	-55 °C to +60 °C
Measuring range EMC Wood	2 % to 30 %
Calibration EMC Wood	5 % to 15 %
Accuracy rel. air humidity	+/- 1,5 % (at 25 °C)
Accuracy temperature	+/- 0,3 °C (at 25 °C) / +/- 0,5 °F (at 77 °F)
Accuracy EMC Wood	+/- 0,5 % (at 25°C)
Operating temperature	-10 °C to +60 °C
Storage temperature	-20 °C to +60 °C
Temperature compensation	Automatic
Data memory	Up to 10,000 measuring values
Power supply	4 pcs. of 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	249 x 75 x 30 mm
Sensorrohr dimensions	12 x 102 mm
Case dimensions	506 x 116 x 50 mm
Device weight	270 g
Weight of device + case	650 g
Device IP rating	IP 40

16. Notes

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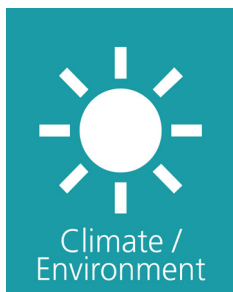
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Schaller Messtechnik develops, produces and sells professional moisture meters and turnkey solutions.

Schaller Messtechnik GmbH

Max-Schaller-Straße 99, A - 8181 St. Ruprecht an der Raab

Tel +43 (0)3178 - 28899 , Fax +43 (0)3178 - 28899 - 901

info@humimeter.com, www.humimeter.com