

GroSens 2.2 single sensor measurements via Companion App (Handheld)



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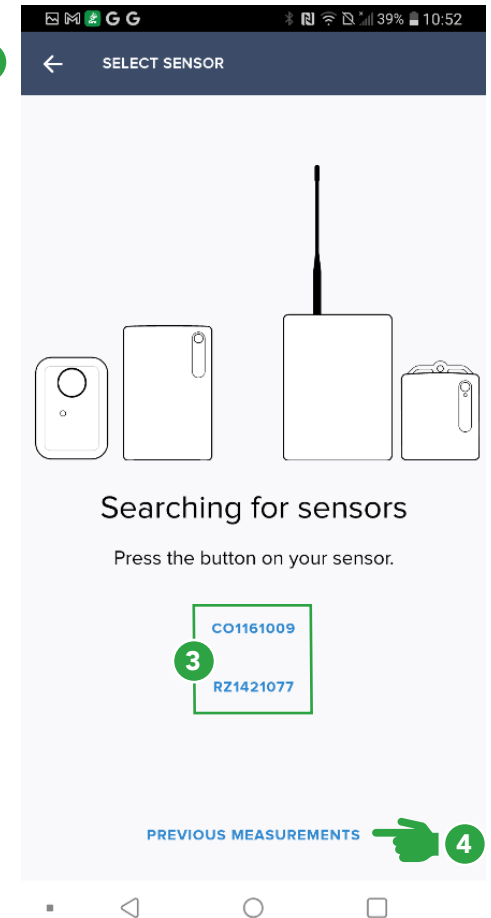
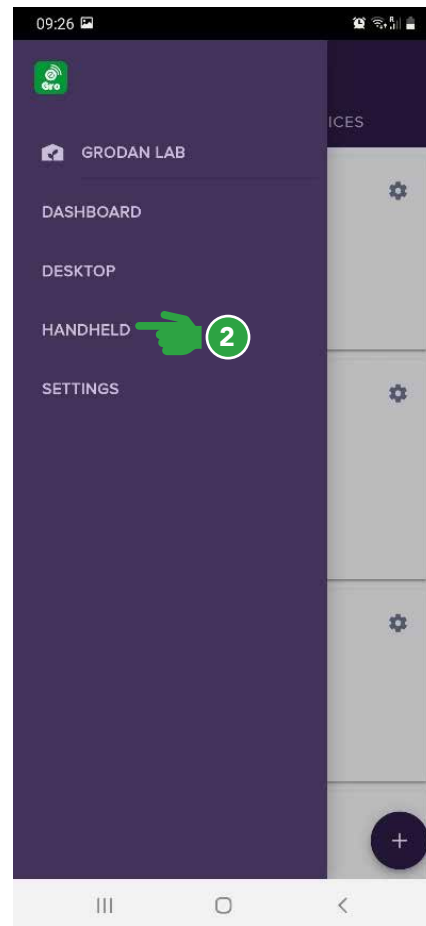
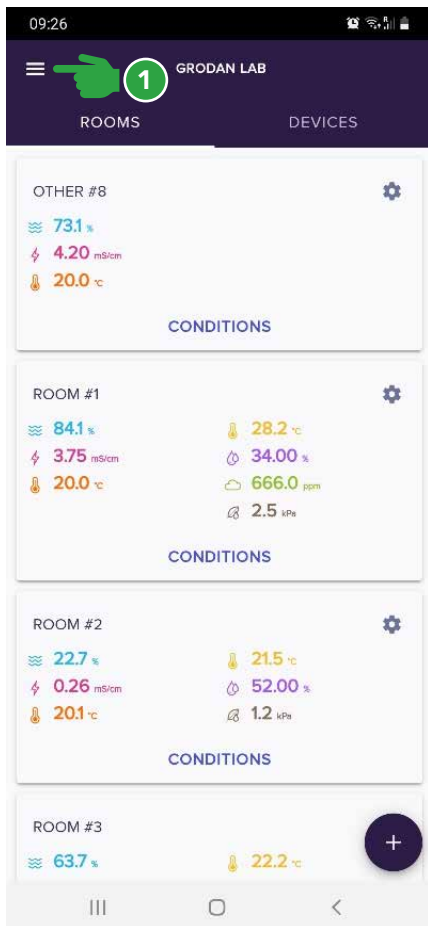
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Set Up: Single GroSens sensor in Companion App

1 Choose type, location and read and accept terms of use.

2 When you select "Set-up Single Sensor", you will be taken to the screen that searches for sensors.

Set Up: Single GroSens sensor in Companion App



① To perform single sensor measurement from an existing system installation, click on the menu (three short bars)

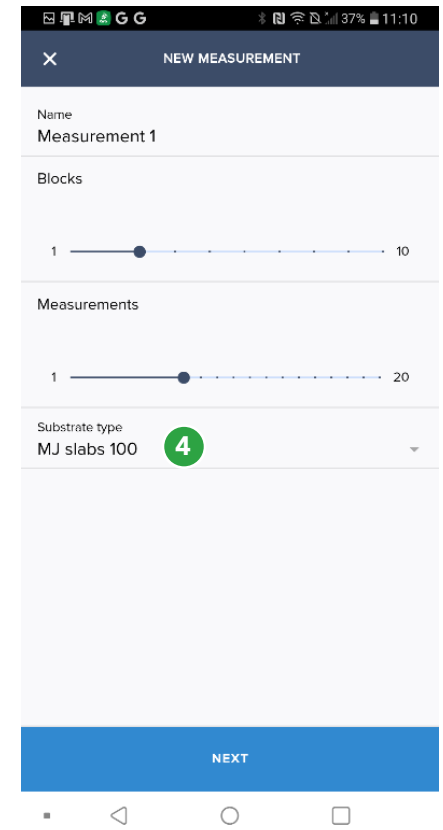
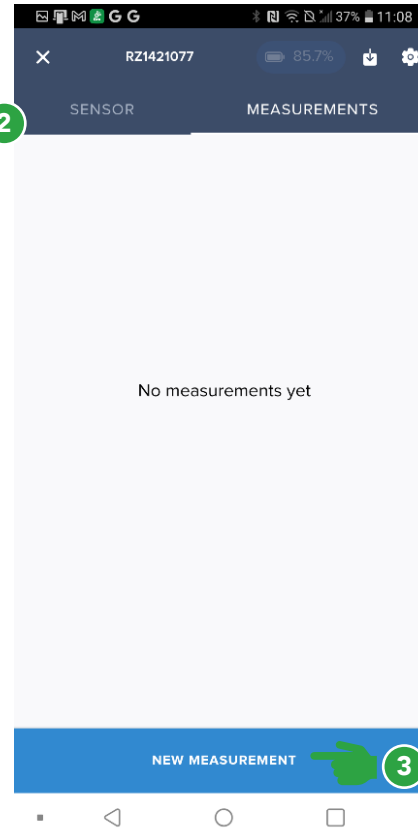
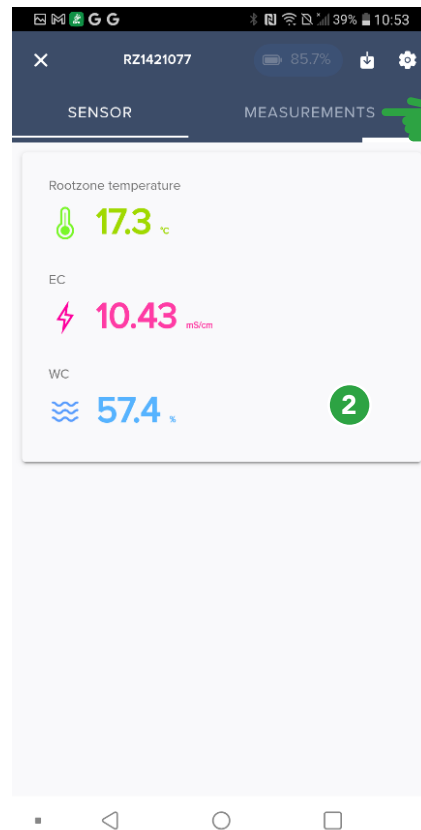
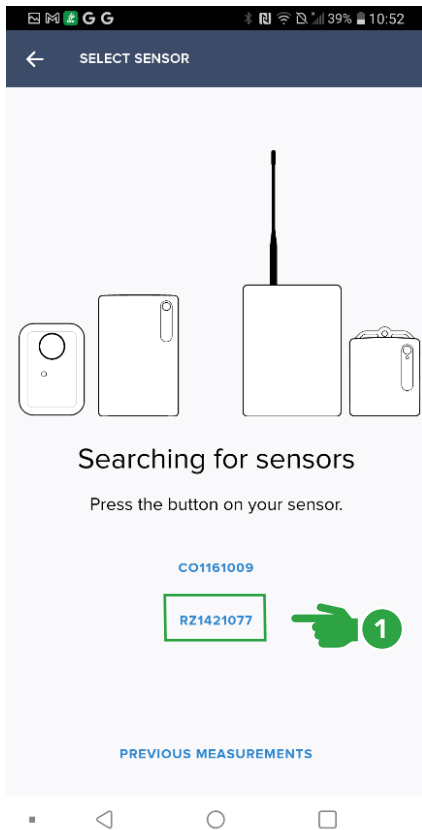
② Click on HANDHELD

③ Press the button on the sensor. The sensor number will appear in app.

NOTE: you can only do measurements for rootzone. Not for climate sensors. Climate sensors can only display the current values in handheld mode.

④ You can click on "PREVIOUS MEASUREMENTS" to review "the list of measurement" done in the past.

Set up: GroSens for multi measurement



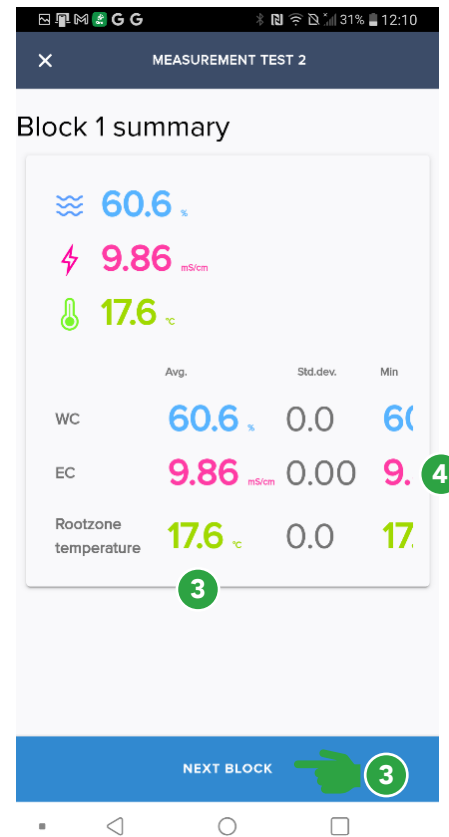
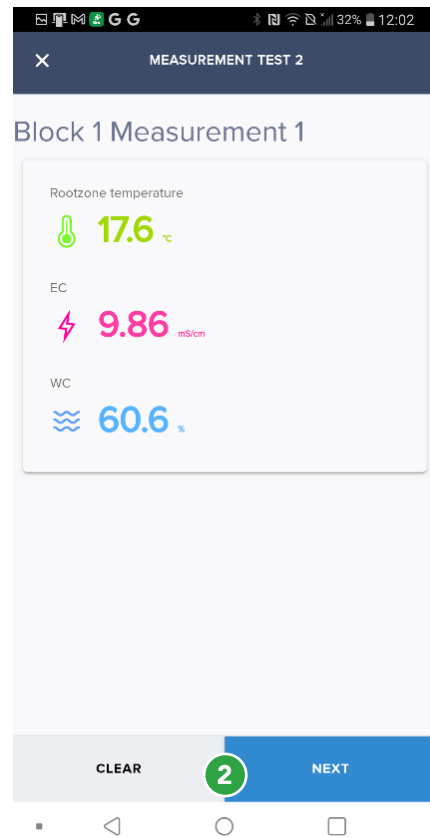
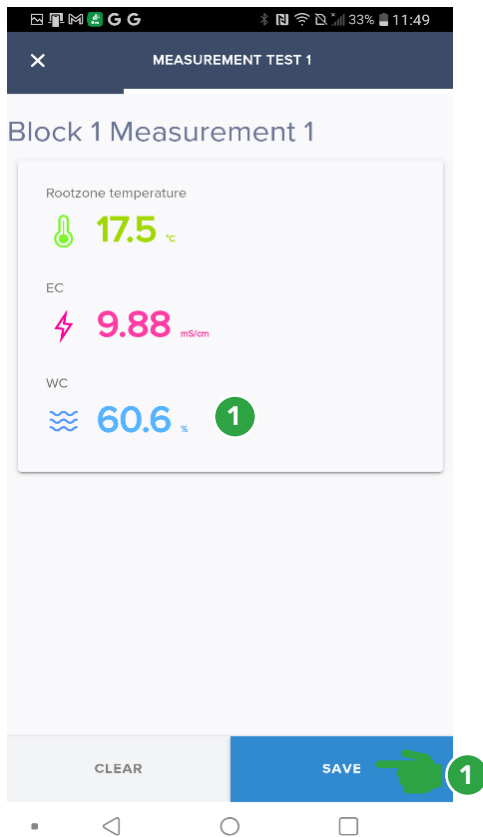
① Click on the sensor you want to see the data from.

② You can see the live measurement data. To collect measurements, go to the measurement tab (only applicable for rootzone sensor data)

③ Click on new measurement

④ **Name:** Give the measurements a name
Select how many **blocks** to measure and how many **measurements** per block.
Substrate type: select correct type

GroSens sensor readings in Companion App



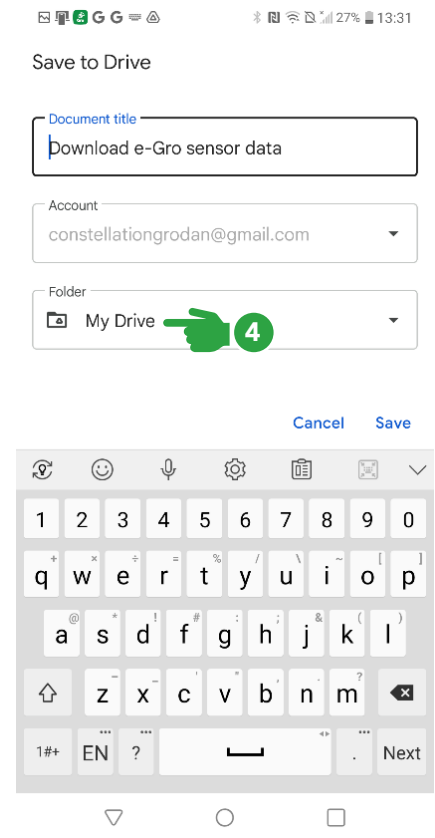
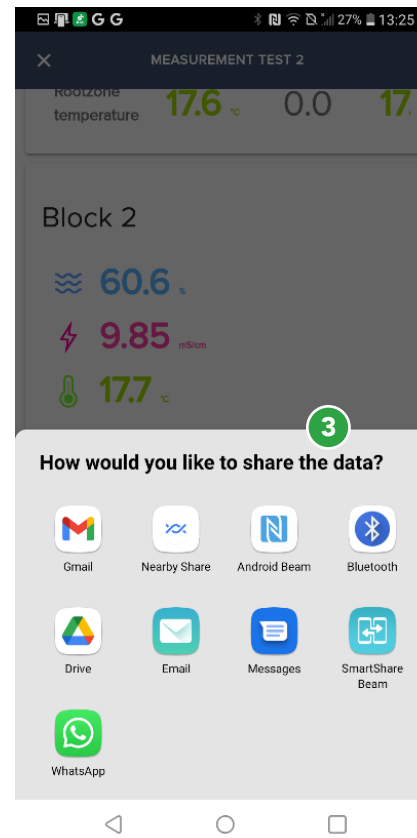
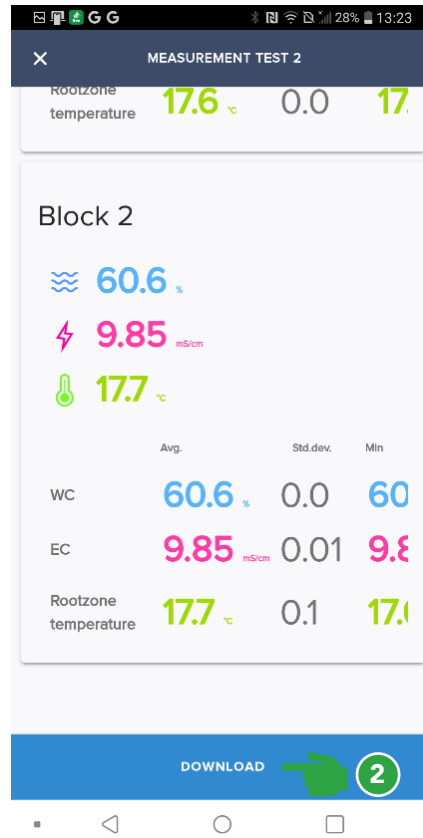
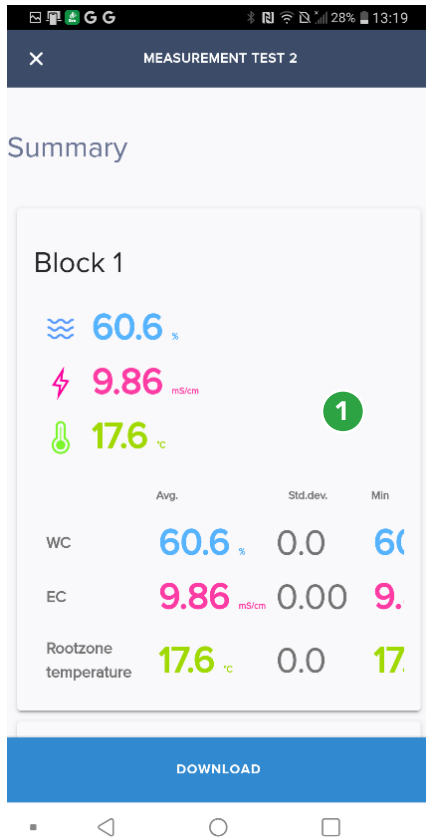
① The measurements starts directly. Press save to save a measurement.

② The measurement info is displayed. Click clear to remeasure or Next to start next measurement.

③ When all measurements of the block are done, the summary is displayed. You can now put the sensor in the next block and start measurement with next block

④ In case the table does not fit the screen, you can scroll it to the left.

Downloading Data



① After all measurements are done, you get a summary. You can scroll left/right and up/down to see all information.

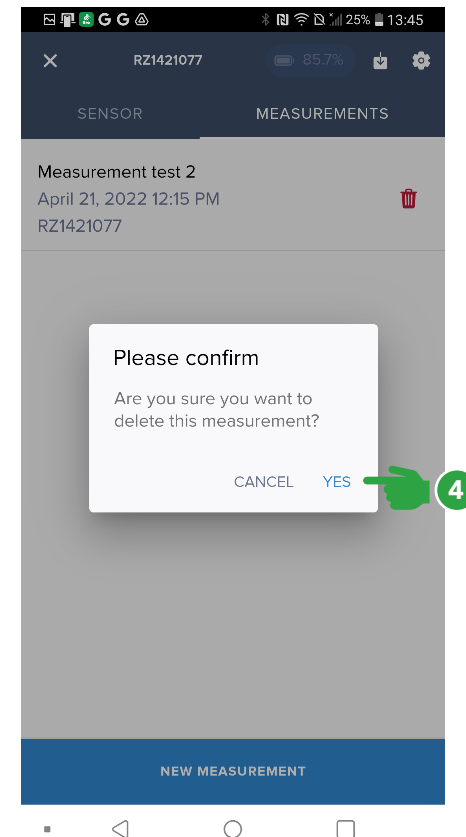
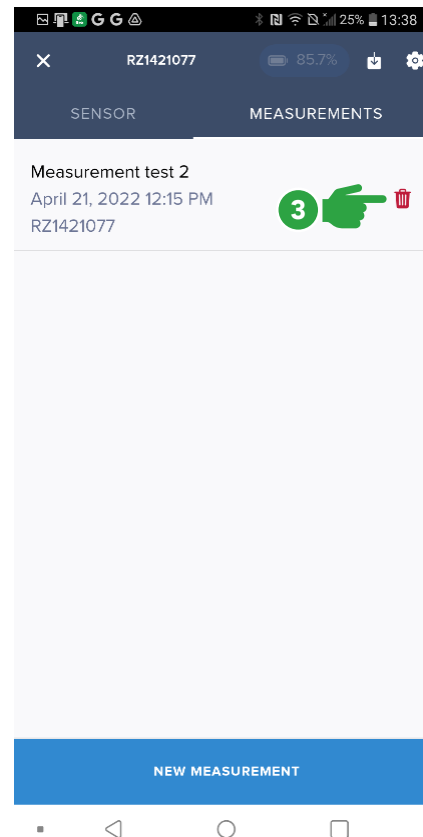
② Download: you can directly retrieve the data. In case you want to stop now, use the X in the upper left corner.

③ Select your favorite method to share the data.

④ Here we selected google drive to

Downloading Data

	A	B	C
1			
2			
3			
4	Block 1	Avg.	Std.dev.
5	EC	9.86 mS/cm	0 mS/cm
6	WC	60.6 %	0 %
7	Rootzone temperature	17.6 °C	0 °C
8			
9	Block 2	Avg.	Std.dev.
10	EC	9.85 mS/cm	0.01 mS/cm
11	WC	60.6 %	0 %
12	Rootzone temperature	17.7 °C	0.1 °C
13			
14	Test Summary		
15	Measurement name	Measurement test 2	
16	Sensor	RZ1421077	
17	Start time	21 Apr 2022 12:02	
18	Stop time	21 Apr 2022 12:15	
19	Blocks	2	
20	Records per block	2	
21	Total Records	4	
22	Slah tvne	Grodan NG 2.0	
	fx	21 Apr 2022 12:15	

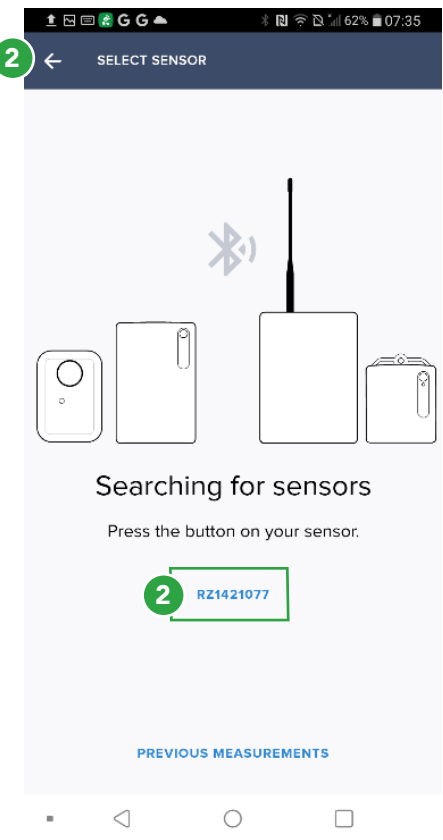
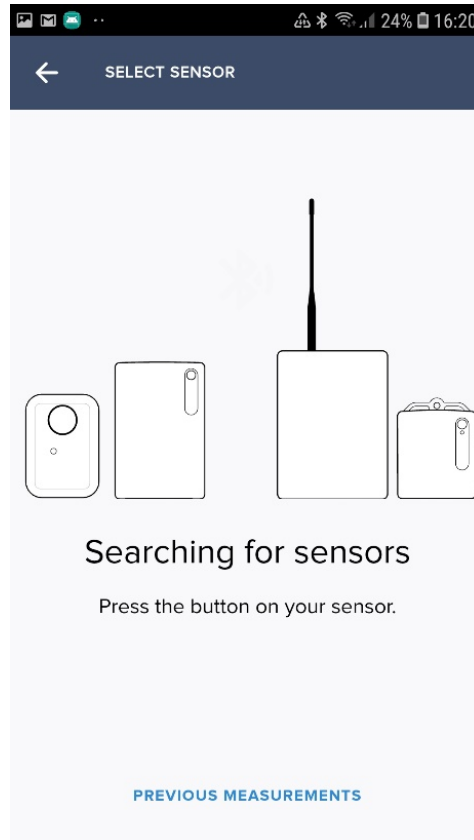
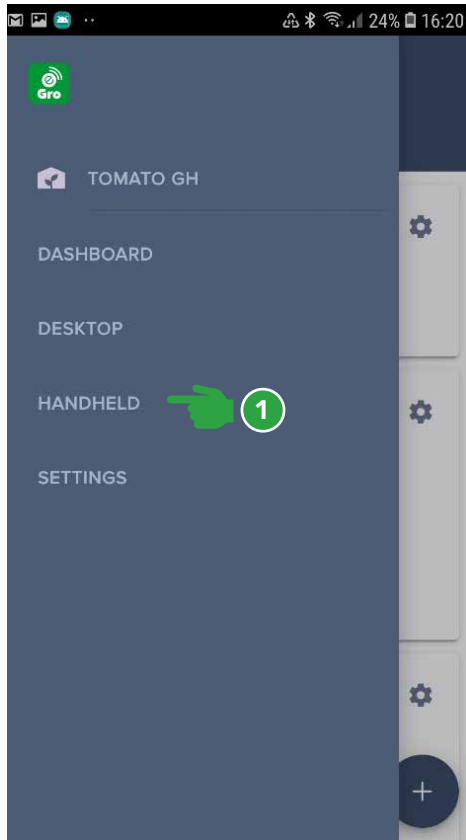


- ① Information is now available via Google drive.
- ② You can exit the measurements summary by pressing the X.

- ③ You will get an overview of the measurements done. You can delete the measurement or start a new measurement.

- ④ When deleting a measurement, you first need to confirm.

Data Logging



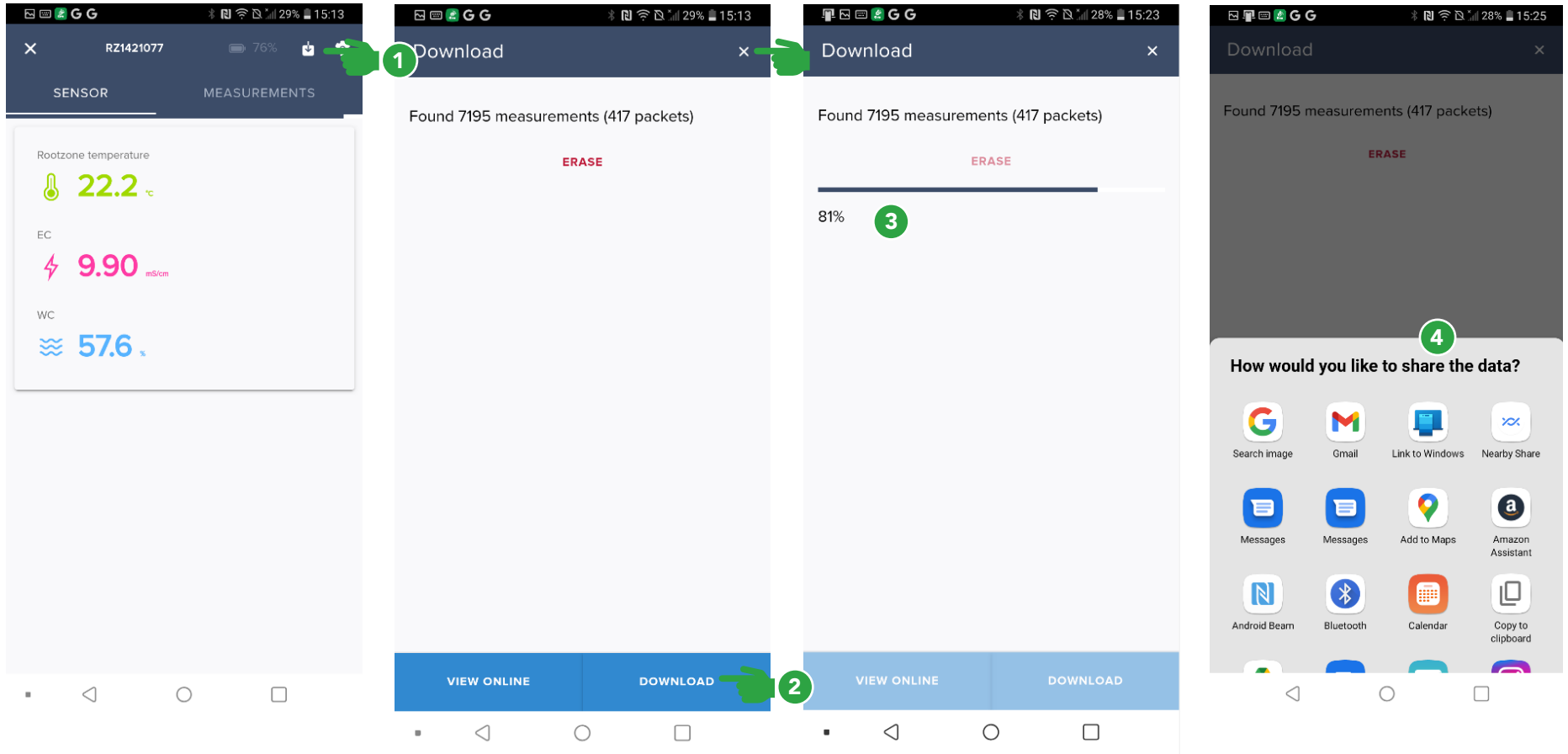
Important:

- Data is logged every 3 minutes
- Maximum is 6 - 15 days (depending on the amount of data)
- if you do not download the data before the storage is full, old data will be overwritten

1 Start the handheld function

2 Press the button on the sensor (only applicable for Rootzone Sensors)
Sensor number will appear in app

Data Logging



① Press the download button

③ Download can take several minutes...

② - download old data if needed then
- **Erase old data**
- close the handheld function via the crosses and the app

④ Choose how to share the information. We choose gmail.

Data Logging

Compose

From: constellationgrodan@gmail.com

To: john.doe@grodan.com

Download e-Gro sensor data

The attached file contains your e-Gro sensor data in the Excel file format.

230323-RZ30...download.xlsx
88 KB

A	B	C	D
Date/Time	EC [mS/cm]	Root. Temp. [C]	WC [%V/V]
24/2/23 23:20	2.01	19.4	92.14208976
24/2/23 23:23	2.02	19.4	91.92834055
24/2/23 23:26	2.02	19.4	91.94760342
24/2/23 23:29	2.02	19.4	91.93708918
24/2/23 23:32	2.02	19.4	91.91957446
24/2/23 23:35	2.02	19.4	91.92478415
24/2/23 23:38	2.02	19.4	91.94059123
24/2/23 23:41	2.02	19.4	91.94760342
24/2/23 23:44	2.02	19.4	91.94763041
24/2/23 23:47	2.02	19.4	91.95116003
24/2/23 23:50	2.02	19.4	91.95816452
24/2/23 23:53	2.02	19.4	91.93009209
24/2/23 23:56	2.02	19.4	91.93708084
24/2/23 23:59	2.03	19.4	91.93358684
25/2/23 0:02	2.03	19.3	91.94709508
25/2/23 0:05	2.02	19.4	91.93006047
25/2/23 0:08	2.02	19.3	91.96641939
25/2/23 0:11	2.02	19.3	91.93207003

Log Summary Details Hardware Summary

Download

Found 7195 measurements (417 packets)

ERASE

VIEW ONLINE DOWNLOAD

Download

Found 7195 measurements (417 packets)

ERASE

Please confirm

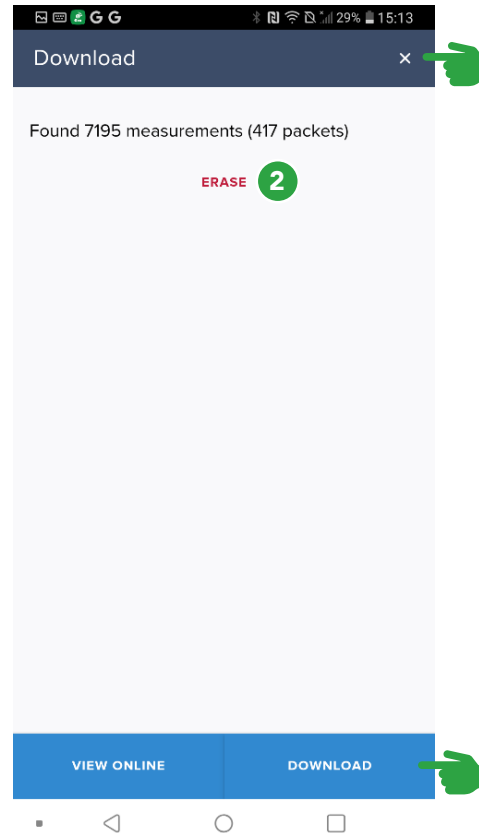
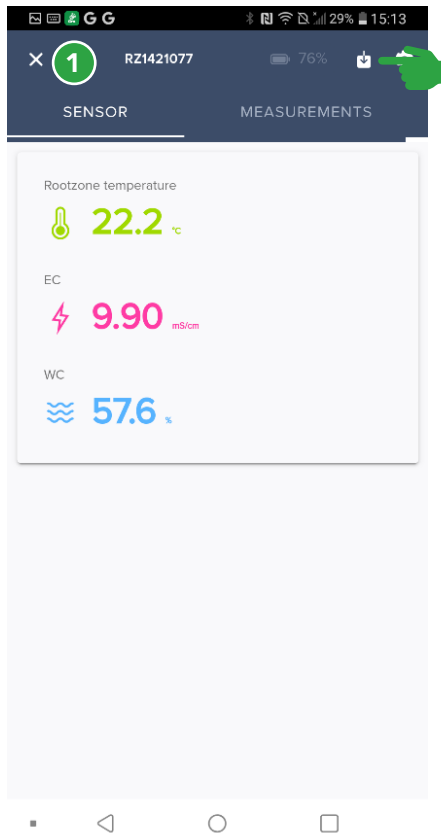
Are you sure you want to erase all stored data from the sensor?

CANCEL YES

VIEW ONLINE DOWNLOAD

- 1 Type the e-mail address to use and send the message with attachment.
- 2 Data will be available in excel format in the mailbox.
- 3 You can now erase the data from the sensor, if you want to.
- 4 To permanently erase data, you will be asked to confirm.

Data Logging



Prepare new logging mode:

- after logging out the handheld function ▶ wait until the green light on the sensors stop flashing
- push the button on the sensor and hold it for more than 5 seconds ▶ you will see 3 short flashes
- Once the light stops flashing, release the button on the sensor ▶ the sensor will shut down.

Start logging mode

- push the button one time ▶ measurement will start
- you can check after 10 minutes in the handheld mode via the download button whether measurement is successful.

① Press the X to close the connection to the sensor.

② - download old data if needed then
- **Erase old data**
- close the handheld function via X at the top right of the app

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