

# GroSens 2.2: e-Gro Companion Desktop Viewer for GroSens



# e-Gro Companion App: Features of desktop viewer & companion app

## e-Gro Companion App

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# e-Gro companion: features of desktop viewer & companion app

## e-Gro Companion App is the software for GroSens

- Consists of desktop viewer and mobile app

## Desktop viewer runs local and in cloud – same functionality in both cases

- Cloud is accessible everywhere via internet
- Local desktop viewer connects to bridge via LAN (no internet connection required)

## Desktop viewer main function is data viewing

- Use large computer screen for detailed analysis & comparison of graphs

## Mobile app main function is managing the sensor network

- General user and system settings
- User management (adding/removing users)
- Hardware & facility management

## Simple alerts possible (extensive alerts in e-Gro Essential)

- min-max value per sensor value
- Settings in desktop – In case values are outside the specified range you get a push notification in the mobile app

	GroSens 2	
	e-Gro companion	
	desktop viewer (local/cloud)	mobile app
user settings		
Metric/Imperial (=C/F)		M/I
language	follows browser	UK/NL/FR/PL
time zone		facility based
system settings		
system back-up		x
user management		x
cloud services (APIs)		+, -, ST
hardware management		
bridge/smartbox	+, UP (Smartbox)	+, -, R, ST
gateway / receiver	+, -, ST	+, -, ST
sensors	-, AS, ST	+, -, AS, ST, UP
converter	+, -, AS, ST	+, -, AS, ST
facility management		
sections/rooms	+, -	+, -
tables/gutters	-	-
slab type	per section/room	per section/room
data viewer		
view sensors/averages	<= 7	1
time axis	1.5/3/7/30 days	1.5 days
adjustable y-axis	all graphs	
photoperiod	natural & artificial	
data export	180 days	
alerts		
min/max sensor values	WC/EC/T/RH/CO2	
sensor value changes	ΔWC/hr	
push notifications	HW & sensor alerts	HW & sensor alerts

+ = add; - = remove

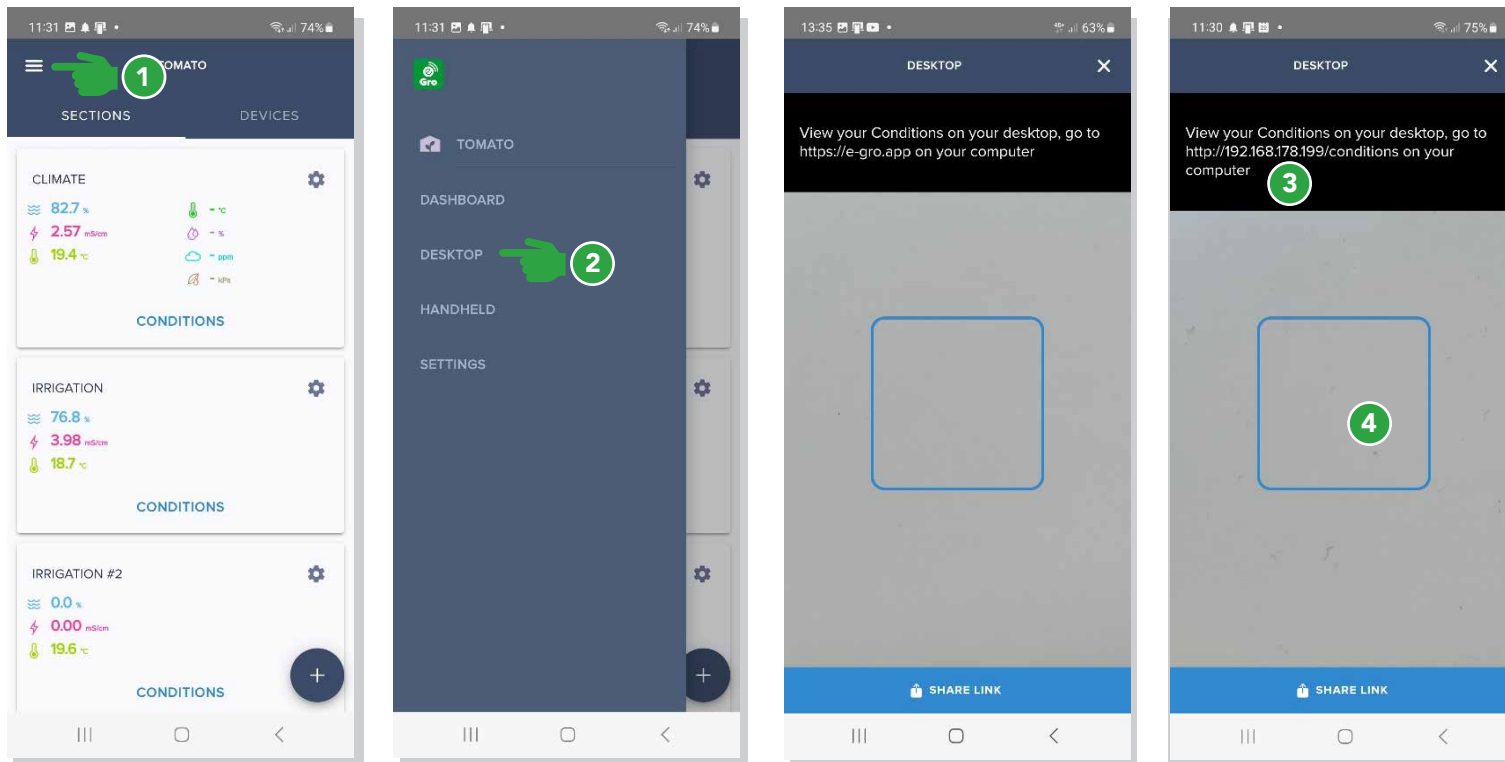
R = reset; ST = status only (no editing)

AS = assign; UP = update

Table displays the different possibilities in the mobile app compared to desktop viewer

Changeable
Fixed

# Desktop Viewer: how to connect to the Desktop Viewer



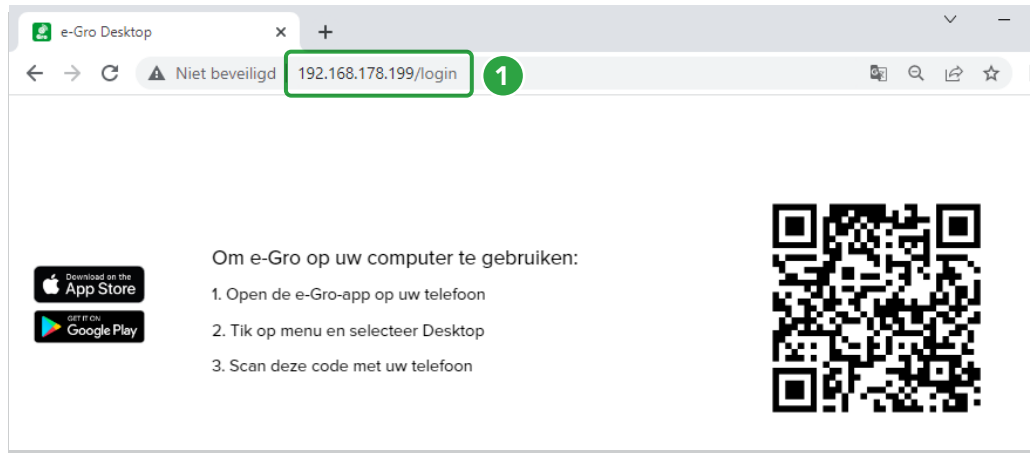
1 Press the hamburger menu [three lines]

2 Press DESKTOP

3 Depending whether your phone is connected to the local network (of the bridge) or the internet, the app will advise you to connect to the IP address via your browser or to <https://e-gro.app>

4 Scan QR code on the web page (see next slide)

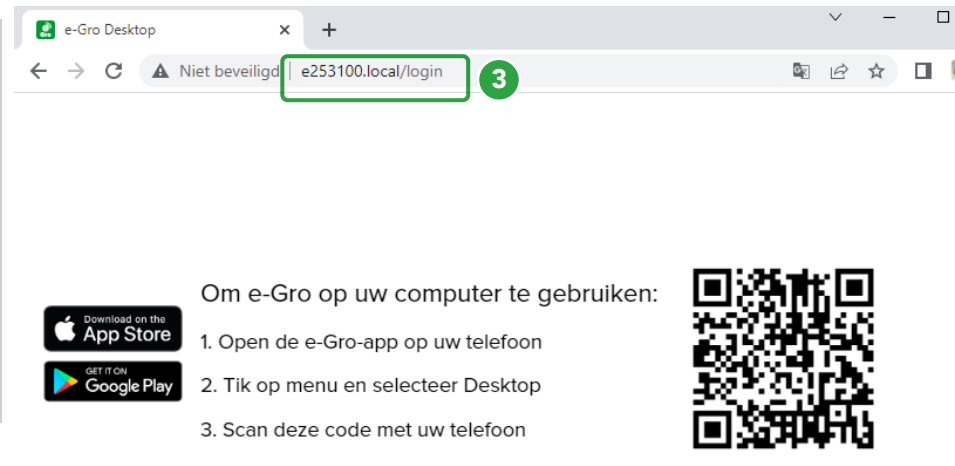
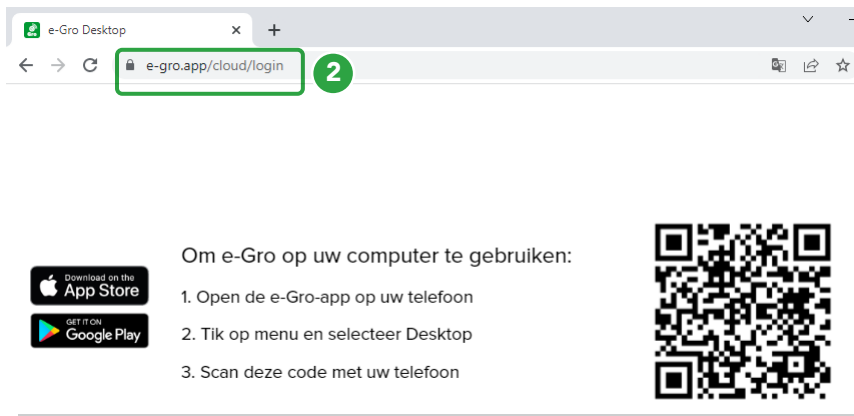
# Desktop Viewer: opening Bridge web page in your internet browser (google chrome is recommended)



① Via IP address. Most reliable if you are on the same network as the bridge (wifi and wired). If IP address of the bridge changes, you need to change this address also!

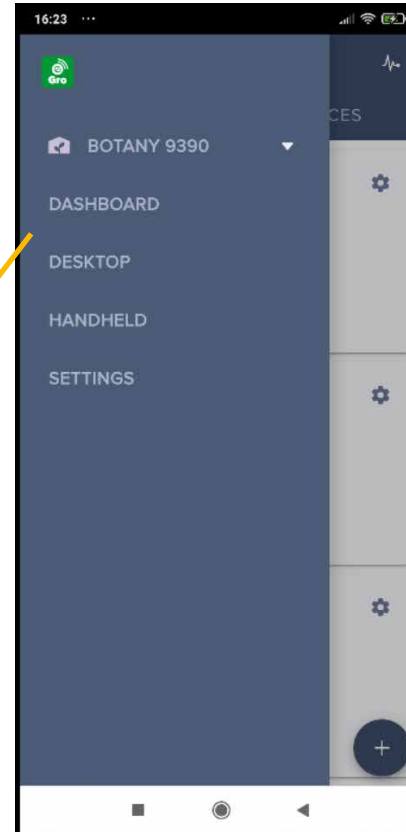
② Via <https://e-gro.app>. Recommended if you are not on the same network as the bridge. Needs on a working internet connection of both your PC and the bridge

③ Via [bridgename.local](#) (bridge name can be found on the back of the bridge: E or BR + 6 digits). Recommended if you have a wired ethernet connection to the bridge



# Desktop Viewer – hardware & facility management

GroSens 2		
e-Gro companion		
	desktop viewer (local/cloud)	mobile app
user settings		
Metric/Imperial (=C/F)		M/I
language	follows browser	UK/NL/FR/PL
time zone		facility based
system settings		
system back-up		x
user management		x
cloud services (APIs)		+, -, ST
hardware management		
bridge/smartbox	+, UP (Smartbox)	+, -, R, ST
gateway / receiver	+, -, ST	+, -, ST
sensors	-, AS, ST	+, -, AS, ST, UP
converter	+, -, AS, ST	+, -, AS, ST
facility management		
sections/rooms	+, -	+, -
tables/gutters	-	-
slab type	per section/room	per section/room
data viewer		
view sensors/averages	<= 7	1
time axis	1.5/3/7/30 days	1.5 days
adjustable y-axis	all graphs	
photoperiod	natural & artificial	
data export	180 days	
alerts		
min/max sensor values	WC/EC/T/RH/CO2	
sensor value changes	ΔWC/hr	
push notifications	HW & sensor alerts	HW & sensor alerts



+ = add; - = remove

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Table displays the different possibilities in the mobile app compared to desktop viewer

Changeable
Fixed

# Desktop Viewer: hardware & facility status

**DEVICES** **CONDITIONS** 1

eu mj [notifications] [refresh] [share]

### Irrigation 2

Rootzone sensors	S/N	83.1 %	2.91 mS/cm	19.6 °C 3	Refreshed	a few seconds ago 3	[gear]
2.0 eu	NE007731	88.0 %	2.28 mS/cm	19.3 °C	a few seconds ago	[gear]	
2.0 eu	NE007732	73.1 %	4.26 mS/cm	19.1 °C	a few seconds ago	[gear]	
r14 2.1 4bat	RZ1451019	100.0 %	19.76 mS/cm	18.3 °C	a few seconds ago	[gear]	
r21 2.1 2 bat	RZ1481037	90.8 %	1.94 mS/cm	19.1 °C	a few seconds ago	[gear]	
r21 2.2 4 bat	RZ2182013	84.9 %	2.20 mS/cm	19.1 °C	a few seconds ago	[gear]	
r21 2.2 2 bat	RZ2182064	Avg	86.6 %	5.56 mS/cm	19.1 °C		

**Climate sensors 5**

S/N	20.6 °C	54.00 %	1615.0 ppm	1.1 kPa	Refreshed	a few seconds ago	[gear]
co r07	CO2031013	Avg	20.6 °C	54.00 %	1615.0 ppm	1.1 kPa	

**CONDITIONS** 4

- 1 Two views available: devices & conditions. Hardware & facility status goes through devices
- 2 All sections and sensors are visible
- 3 Actual sensor data and status is visible
- 4 Go to data viewing mode ('conditions') for this section
- 5 Sensors are grouped per type

# Desktop Viewer: hardware & facility status

The screenshot displays the Grodan Desktop Viewer interface. At the top, there are tabs for 'DEVICES' and 'CONDITIONS'. Below the tabs, there are sections for 'Climate sensors' (both showing 'No sensors found'), 'Unassigned sensors', 'Bridge', and 'Gateway'. A 'CONDITIONS' button is visible in the top right of the sensors section.

**Unassigned sensors** (Annotation 1):

Rootzone sensors	S/N				Refreshed
	TE003302	- %	- mS/cm	- °C	Never

**Bridge** (Annotation 2):

Name	IP address	S/N
Botany 9390	192.168.2.54	E249390

**Gateway** (Annotation 3):

Name	IP address	Hardware address	Refreshed
	192.168.2.36	AC1F09FFFE01431B	a few seconds ago
	192.168.1.99	AC:1F:09:01:43:17	3 months ago

1 Sensors which are not assigned to a section

2 Name, IP address and serial number of bridge is visible

3 Name, IP address, hardware address and status of gateway



# Desktop Viewer: section/room editing

The screenshot displays the 'Irrigation' section in the Grodan Desktop Viewer. A modal window is open for editing the section/room properties. The modal contains the following fields:

- Phase: Other
- Room name: Irrigation
- Growing medium: Stone wool
- Substrate type: Grodan Vital Dry

At the bottom of the modal, there are three buttons: CANCEL, UNASSIGN ROOM SENSORS, and SAVE. The UNASSIGN ROOM SENSORS button is highlighted in red.

1 Section/room can be edited by pressing 'gear symbol'. Screen will pop up.

2 Edit the different section properties and press SAVE.

3 Use this button to unassign all sensors from a section/room

# Desktop Viewer: GroSens Rootzone Sensor

The screenshot displays the 'Irrigation' section of the GroSens Rootzone Sensor desktop viewer. A modal window is open for editing a sensor. The modal contains the following fields and controls:

- Room:** A dropdown menu currently showing 'Irrigation'.
- Sensor name:** A text input field containing '2.0 eu'.
- Buttons:** At the bottom of the modal, there are three buttons: 'CANCEL' (blue), 'DELETE SENSOR' (red), and 'SAVE' (blue).

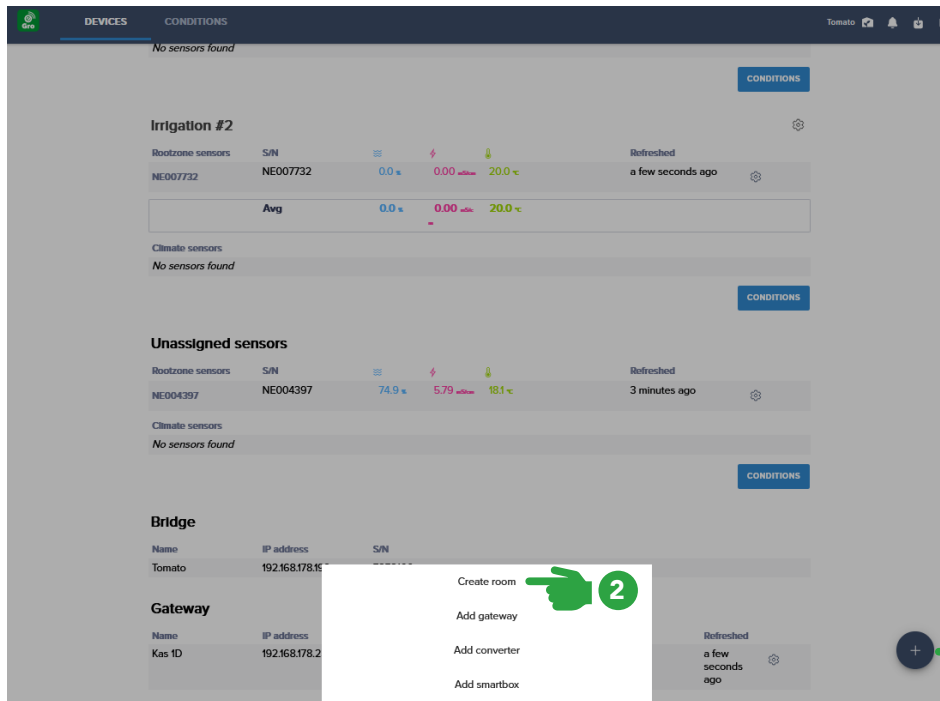
Numbered callouts (1, 2, 3) are placed on the image to highlight specific actions: 1 points to a gear icon on the sensor list, 2 points to the 'Room' dropdown, and 3 points to the 'DELETE SENSOR' button.

1 Sensor can be edited by pressing 'gear symbol' next to the sensor. Screen will pop up.

2 Edit the different sensor properties and press SAVE.

3 Use this button to remove sensor from system

# Desktop Viewer: Adding rooms



Please set a room type and optionally change the name of your room

Phase  
Select a type

Room name

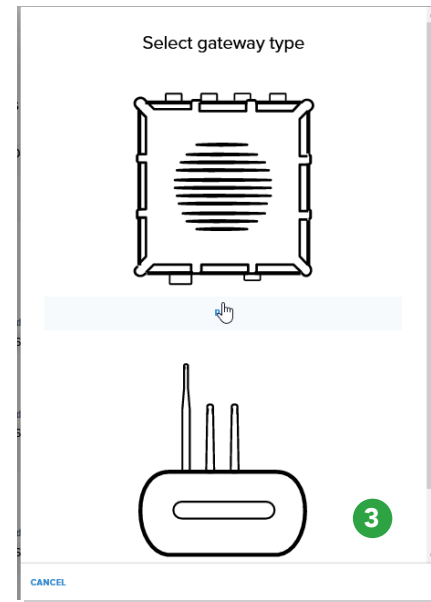
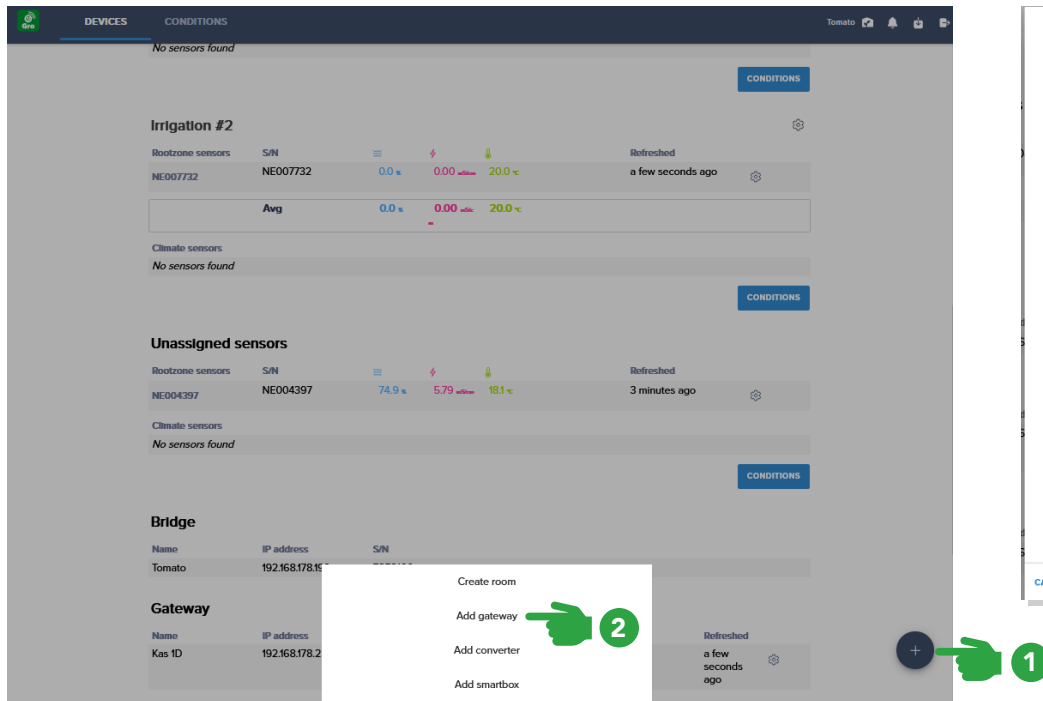
Growing medium  
Stone wool

Substrate type  
Select a substrate type

CANCEL CREATE ROOM

- 1 Press the + sign to get a pop up
- 2 Click 'create room' to create a new room
- 3 Edit the different sensor properties and press 'create room'

# Desktop Viewer: Adding Gateway

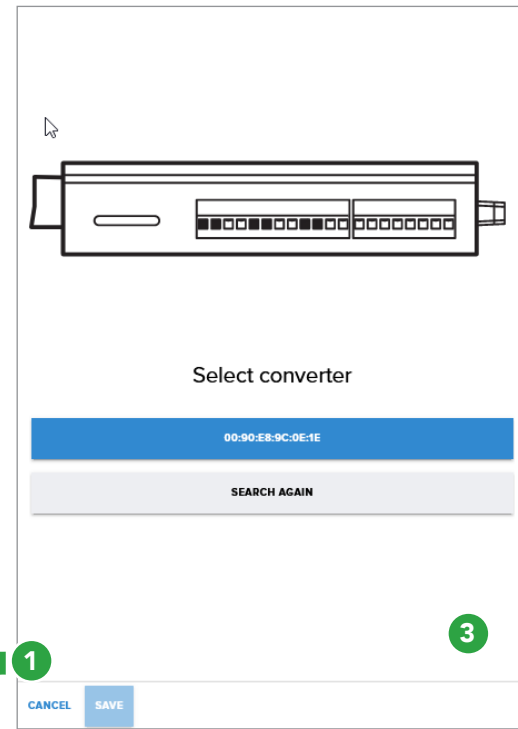
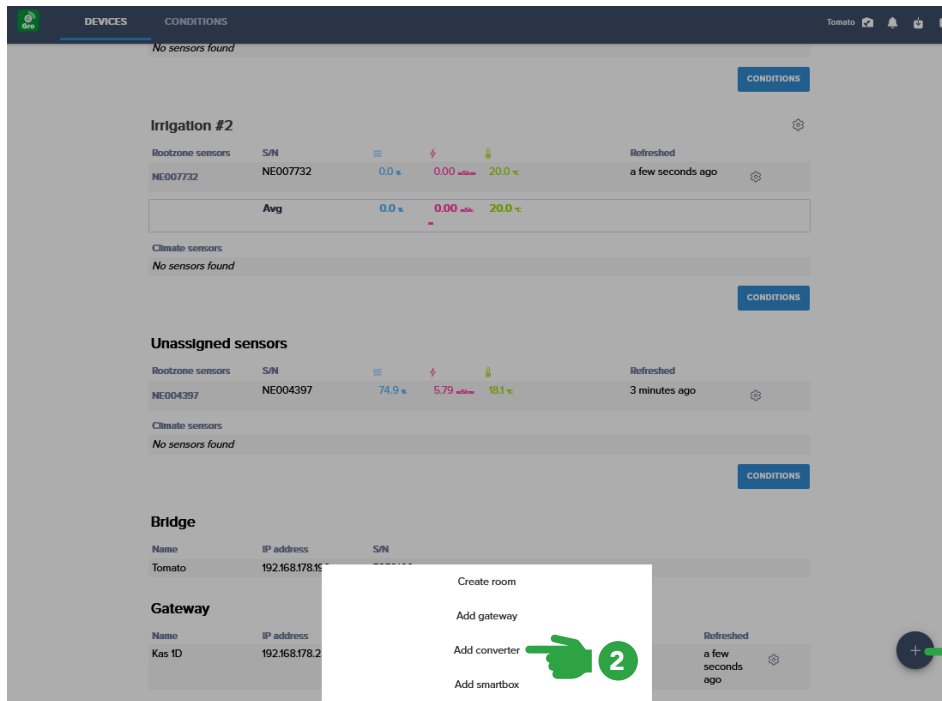


1 Press the + sign to get a pop up

2 Click 'add gateway'

3 Follow the steps on screen to add a gateway.

# Desktop Viewer: Adding Converter

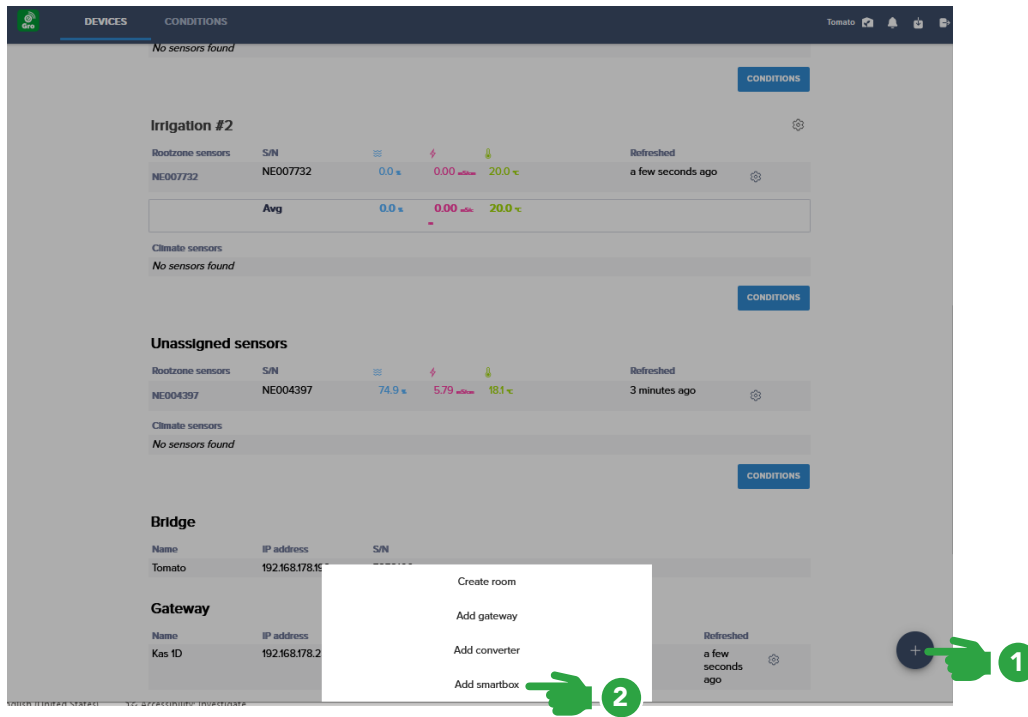


1 Press the + sign to get a pop up

2 Click 'add converter'

3 Follow the steps on screen to add a converter.

# Desktop Viewer: Adding Smartbox



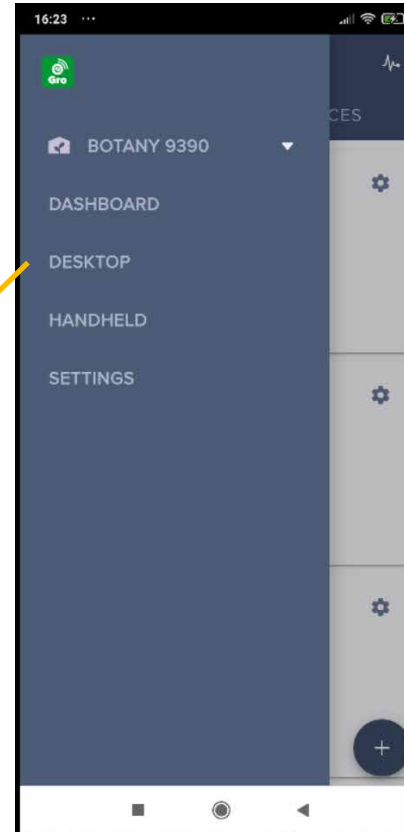
1 Press the + sign to get a pop up

2 Click 'add smartbox'

3 Type in the IP address shown on the smartbox display and press save. Smartbox sensor information will be shown in the app and desktop viewer

# Desktop Viewer – data viewing & alerts

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system settings		
system back-up		x
user management		x
cloud services (APIs)		+, -, ST
hardware management		
bridge/smartbox	+, UP (Smartbox)	+, -, R, ST
gateway / receiver	+, -, ST	+, -, ST
sensors	-, AS, ST	+, -, AS, ST, UP
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Changeable
Fixed

# Desktop Viewer: data view per section



1 Select section to be displayed

2 Select values to be displayed via + and select which lines should be thick

3 Select viewing period

4 Select which lines to display in the graph

5 All values in the graph

6 Slider to move the viewing period to desired time-frame



# Desktop Viewer: detailed data viewing & comparison



① Click + sign

② Select sensors to be displayed, section average can be included or excluded  
Maximum of 7 sources

# Desktop Viewer: detailed data viewing & comparison



1 Second chart can be added to view & compare another section

# Desktop Viewer: scaling the y-axis

The screenshot displays the Grodan desktop viewer interface for a 'Tomato GH' device. The main view shows a multi-line graph with various data series over a 24-hour period. A 'Graph preferences' dialog box is open, allowing users to adjust the y-axis scaling for two parameters: WC (Water Content) and EC (Electrical Conductivity). The dialog includes instructions: 'Choose the appearance of the (vertical) Y-axis. 'Autoscale' means the range of values will change with the values of the parameters. 'Fixed' means the graph will have a manual set scale on the axis regardless of the parameter values.'

**Graph preferences**

Choose the appearance of the (vertical) Y-axis. 'Autoscale' means the range of values will change with the values of the parameters. 'Fixed' means the graph will have a manual set scale on the axis regardless of the parameter values.

**WC:**

Autoscale  Fixed

From:  To:

**EC:**

Autoscale  Fixed

From:  To:

CANCEL DONE

The background interface includes a top navigation bar with 'DEVICES' and 'CONDITIONS' tabs, and a right-hand menu with 'PHOTOPERIOD', 'ALERTS', and a three-dot menu. A green arrow points to the three-dot menu, which is open, showing 'Axis settings' and 'Export to CSV' options. A green hand icon points to the 'Axis settings' option.

# Desktop Viewer: setting alerts

Value	Time	Date
38.00 %	02:48	Apr:21
422.0 ppm		
1.4 kPa		
10.49 mS/cm		
57.5 %		
18.8 °C		
17.1 °C		

1 Alerts are visible here and push notifications will be given to mobile (if selected in the app)

2 Alerts are user based. Each user can set different alerts.

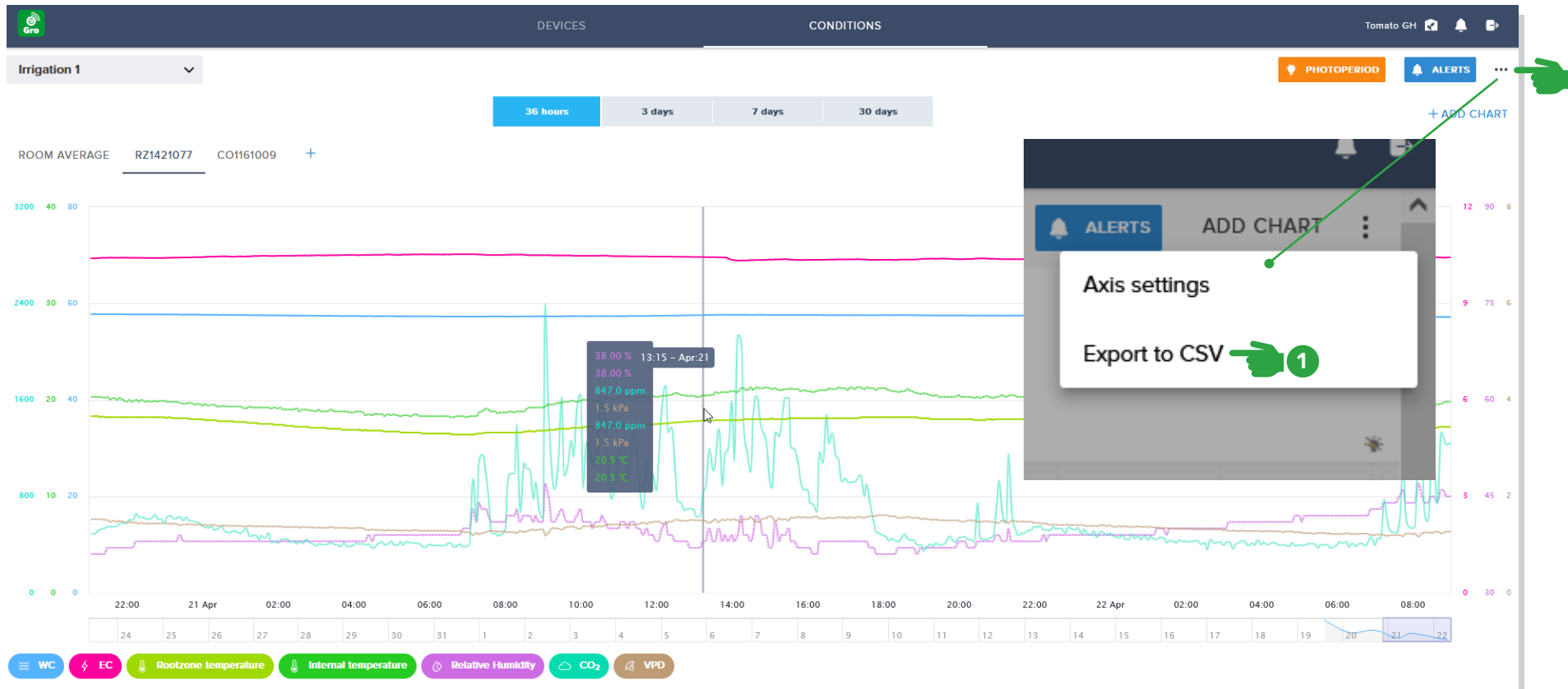
4 Select section & sensors in section

5 Set range of the alert

3 Alert must be given a name

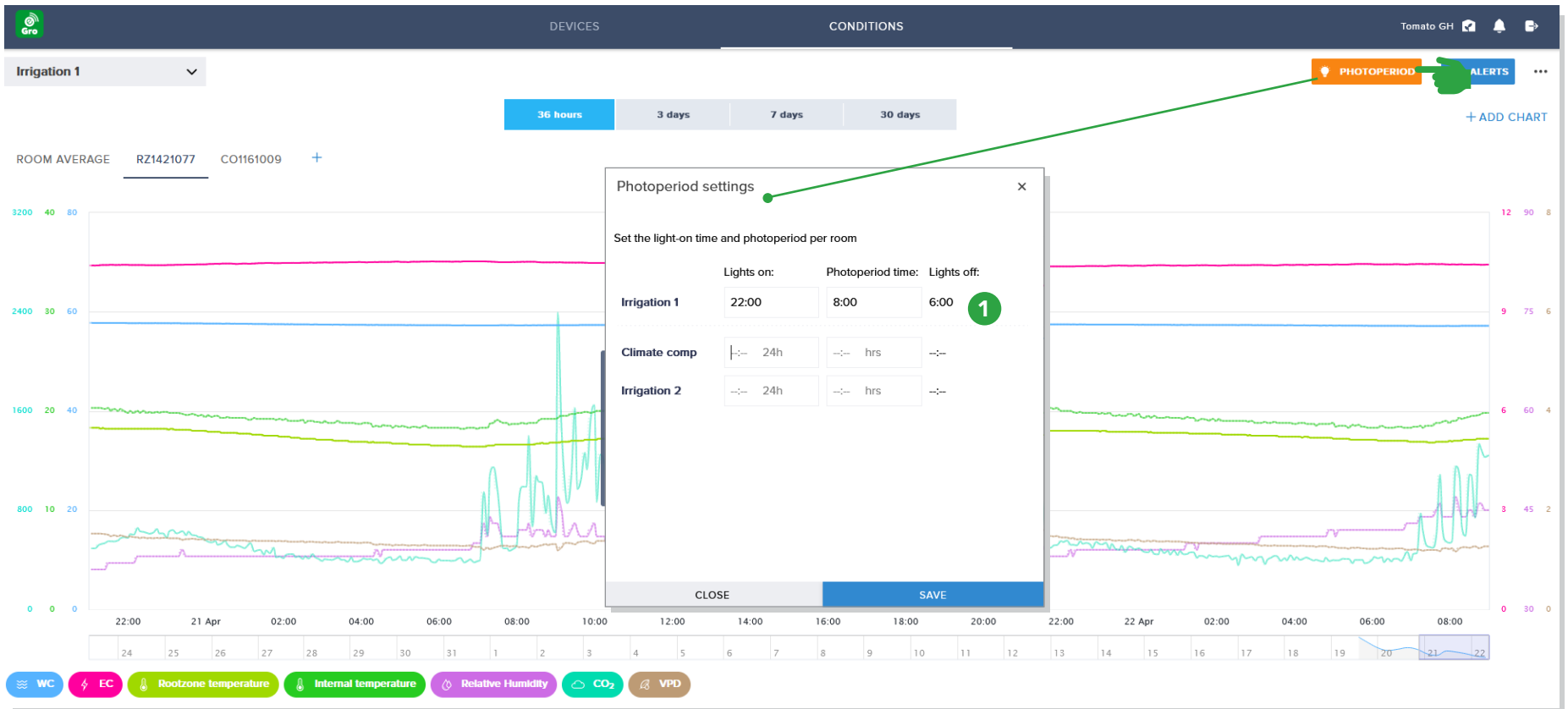
6 Add the alert

# Desktop Viewer: data export



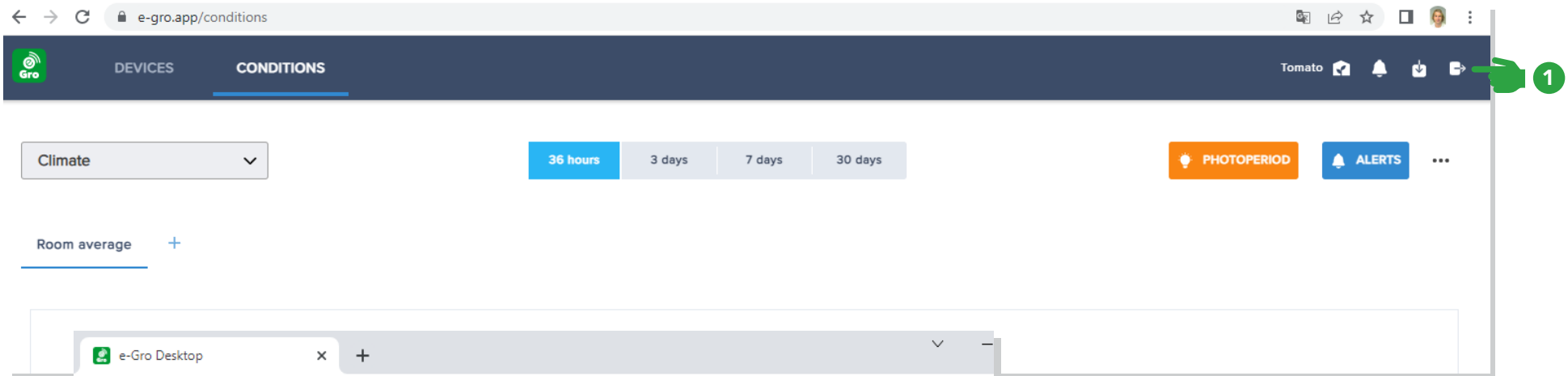
① Data export is fixed to 180 days period.

# Desktop Viewer: photoperiod

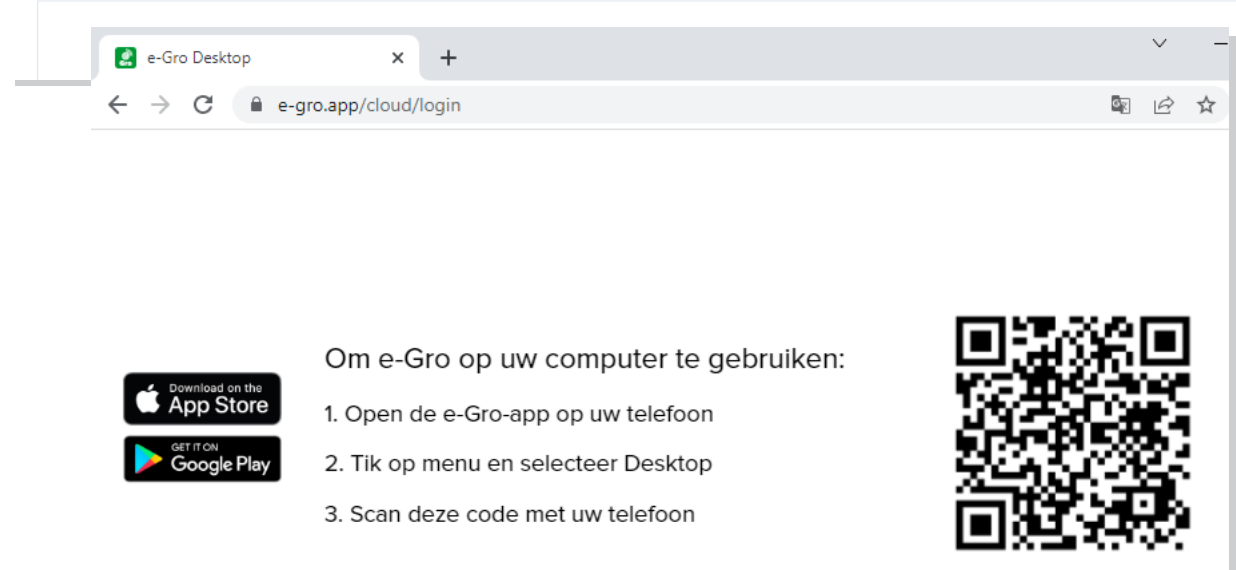


1 Set the photoperiod time per section.

# Desktop Viewer: logout (switch between bridges/facilities)



The screenshot shows the e-gro app interface on a desktop. The top navigation bar includes the Gro logo, 'DEVICES', and 'CONDITIONS' tabs. On the right side of the navigation bar, there is a user profile icon labeled 'Tomato', a home icon, a notification bell, a download icon, and a logout icon. A green arrow points to the logout icon, which is also labeled with a circled '1'. Below the navigation bar, there are filters for 'Climate' and time intervals: '36 hours', '3 days', '7 days', and '30 days'. There are also buttons for 'PHOTOPERIOD' and 'ALERTS'. The main content area shows 'Room average' with a plus sign.



The screenshot shows the e-gro app desktop viewer login page. The browser address bar displays 'e-gro.app/cloud/login'. The page contains instructions for using the app on a computer, a QR code, and download links for the App Store and Google Play.

Om e-Gro op uw computer te gebruiken:

1. Open de e-Gro-app op uw telefoon
2. Tik op menu en selecteer Desktop
3. Scan deze code met uw telefoon

1 To login to another facility, press the logout symbol. If you are routed to e-gro: Go to <https://e-gro.app> and press this button within 10 seconds. You will get back to the login page.

The Grodan Group supplies innovative, sustainable stone wool substrate solutions for the professional horticultural sector. Based on Precision Growing principles, these solutions are particularly applied to the cultivation of vegetables and flowers. In addition to its stone wool substrates, the Grodan Group also provides tailor-made advice and tools to support Precision Growing and thus facilitate the sustainable production of healthy, safe and tasty fresh produce for consumers.

**Grodan, a division of ROCKWOOL**

Industrieweg 15  
Postbus 1160, 6040 KD Roermond  
The Netherlands  
T +31 (0)475 35 30 20  
F +31 (0)475 35 37 16  
info@grodan.com  
www.grodan.com



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