GrowSphere™
Operating System

GrowSphere™ **FLEX**
Irrigation Fertigation Controller

Quick Setup Guide

2026

orbia | Precision Agriculture

◆ **NETAFIM**™ DIGITAL FARMING

Advanced Features

- Ideal for agricultural and landscape applications
- Simple to use, intuitive interface that makes irrigation tasks quick and efficient
- Smart alerts and notifications
- Integrates with the GrowSphere™ cloud Workspace
- Modular configuration
- Easily manages single units or complex multi-device setups
- Flexible and secure remote access from anywhere

→ Supported Devices and Features

Number of MLs	1
Number of valves	16 local DC valves
Irrigation by time/quantity	Both
Dosing channels	4
BLE	√
Connection to internet	Cellular
Digital inputs	8

→ Programs, Shifts and Recipes

Irrigation programs	8
Shifts per program	8
Dosing methods	• Bulk by quantity or time • Spread by time
Dosing recipes	8

→ Battery Description

Nominal capacity	5200 mAh
Nominal voltage	3.7V
Charger input	5.5-7.8V (Up to 1A)

FC CE

Technical Assets

We're always happy to help!
Get in touch with our Support Team
and we'll guide you every step of the way."

What is in the BOX

GrowSphere™ **FLEX**

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* Optional -
External solar panel 5.5W +
5m extension cable

Accessories Kit:

| Antena | Charging cable | Base plate | Bird spikes |

| Metal cable ties | Plastic bands | Magnetic screwdriver 2x50mm | Activation magnet |

Installation Preparation

1. Connect the antenna to the device
2. Insert SIM card (3gb per month) (not included)
3. Wire all your devices to the relevant ports (see supported devices below)
4. Connect the power source

Cellular antenna connector

Solar panel connector / Charging cable

Power source
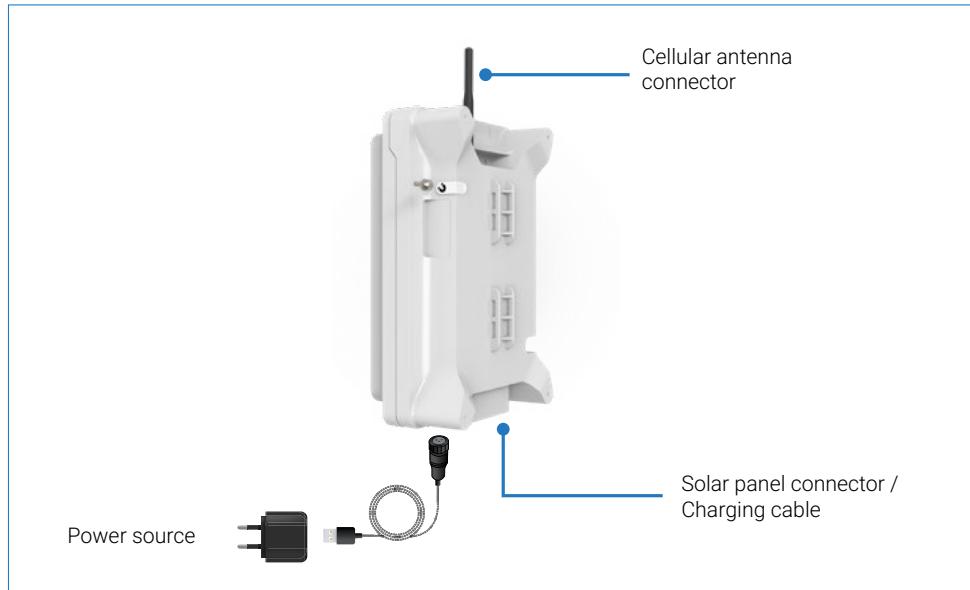
Supported devices

1	16	1	4
Pump	DC latch valves	Main valve	Dosing channels

1	4	1
Water meter	Dosing meter	Booster pump

Supported devices may be connected in any combination, up to 16 outputs total (pump, valves, main valves, dosing chanels, booster pump)

Wiring Diagram

- DC valves – Connect the valve wires to the digital output's ports, following the + and - markings.
- Each digital input terminal includes a:
  - » Shared ground (−)
  - » A dedicated positive input for DI1, DI2, and so on.
  - » An auxiliary (+) supply to power active devices.
  - » Sensors should be wired by connecting their signal output to DI1 or DI2 and their ground to the common (−) terminal
  - » For two-wire digital sensors, either wire can be connected to DI and (−) as polarity is not critical.

SIM card slot

RTC battery

Main battery

SD card slot

Serial SDI-12 input

Technician cable input

Charging indication LED

Reset button

Digital inputs

Serial RS-232 input

Digital outputs

Serial RS-485 input

Analog inputs
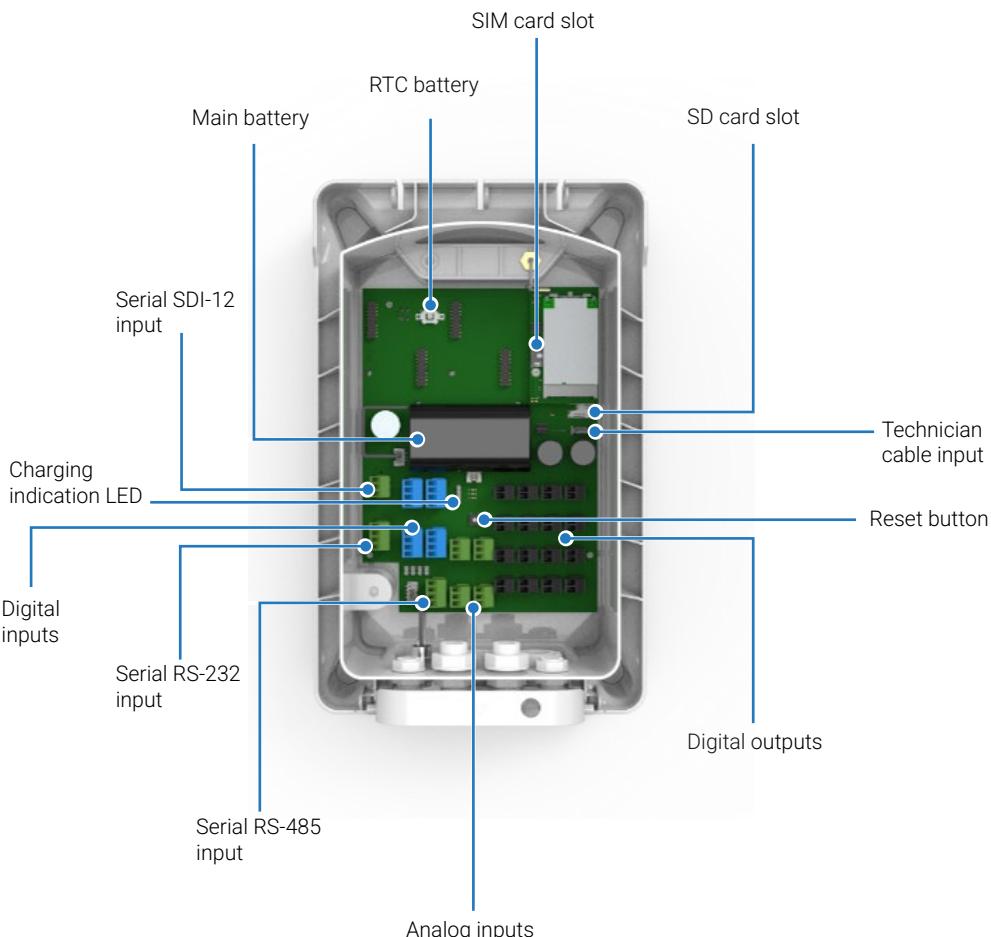
Setting up your device on the GrowShpere™ app

Step 1

Download the **Grow**Sphere™ mobile application:

or simply Scan the QR code:

Open the **Grow**Sphere™ app
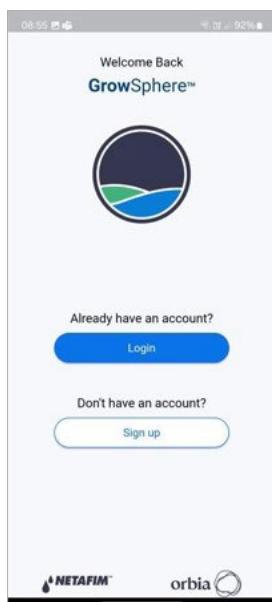
Existing user?

Click 'Login'

1

2
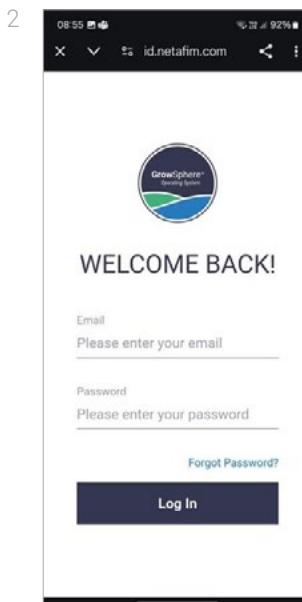
New user?

Click 'Sign up' and fill in your details

3

4
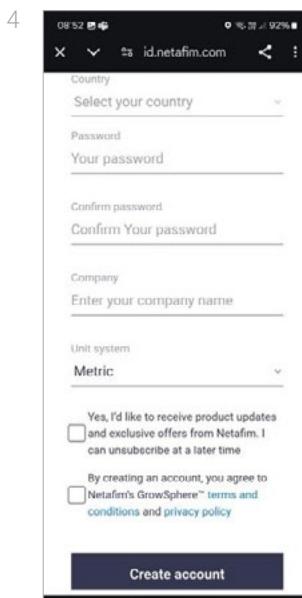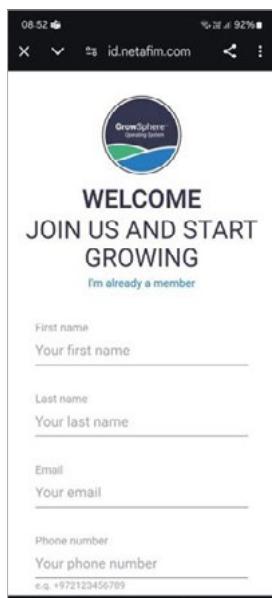
Step 2 - Create a New Farm

- Create a new farm by signing up to the application, or navigate to an existing farm
- Follow the instructions provided in the invitation received from Netafim

Add the FLEX device to your farm

- Once the farm is created and opened, navigate to the Devices menu or Click on the + icon at the home page

Devices menu
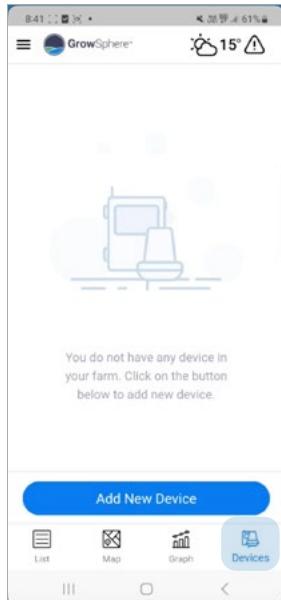
Home page

2

Click Add Device

Select the required device type

Manually enter or Scan the Installation Code / Serial Number. This can be found on the side of your FLEX
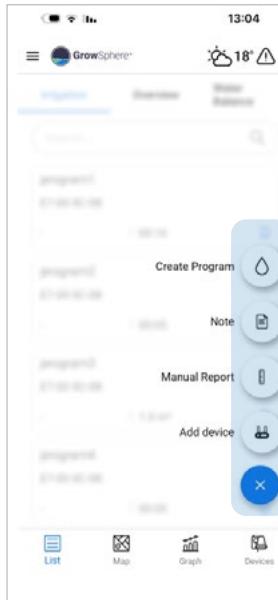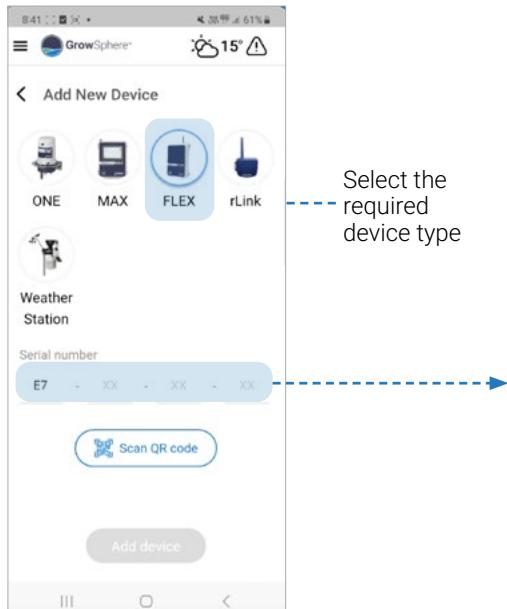
Follow the on-screen instructions to complete the device setup.

Short how to video:
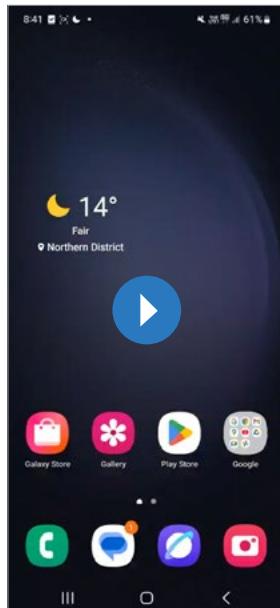
## Step 3 - Configure and test the device

- After the device has been successfully added to your farm, open the DEVICES menu
- Select the relevant device from the list.

1
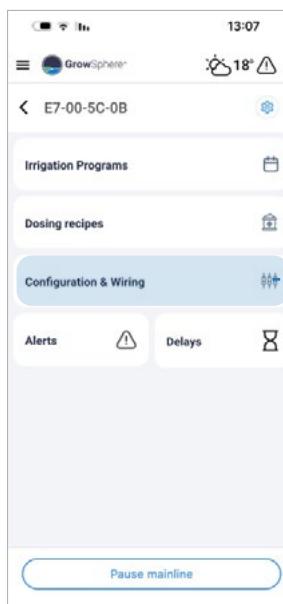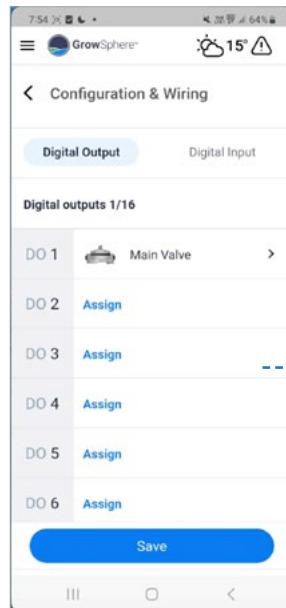
Click
Configuration
& Wiring

2

Select the
relevant input/
output

3
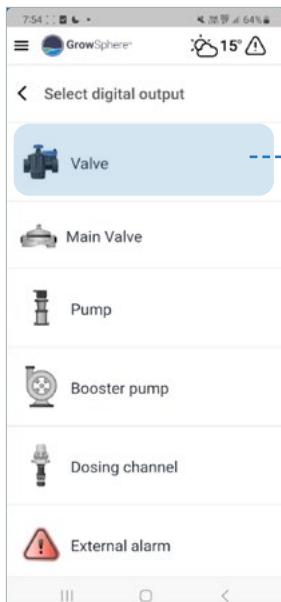
Choose the instrument you wish to assign to it

4
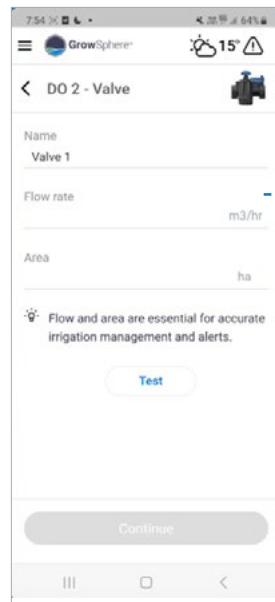
set the relevant parameters and test the outputs

Short how to video:
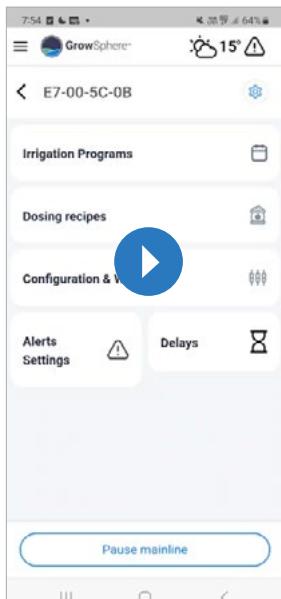
## Step 4 - Configure alerts and delays

- Once your FLEX device is connected to all valves and peripherals, configure the system alerts and delays to ensure safe irrigation operation.
- Open the DEVICES menu.
- Select the relevant device.

1

Click •
--- Alerts and
Delays

2
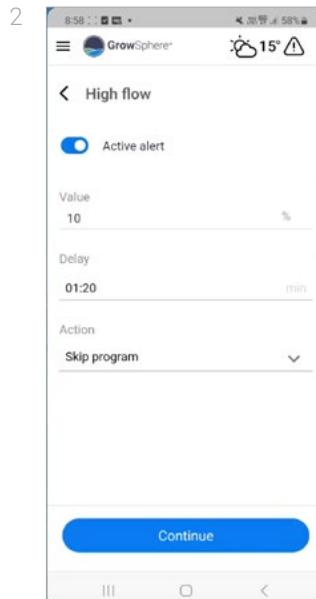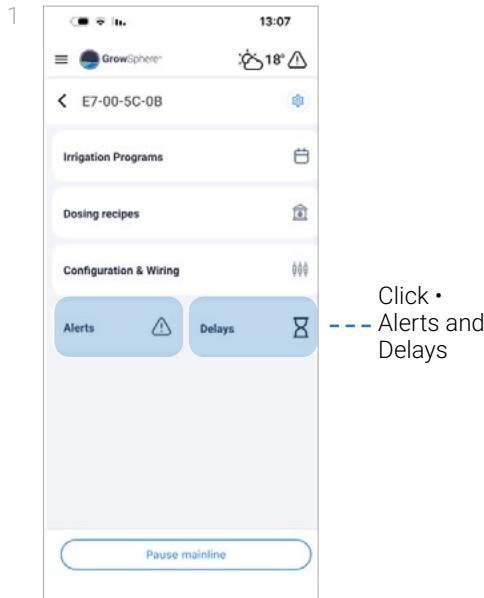
Short how to video:
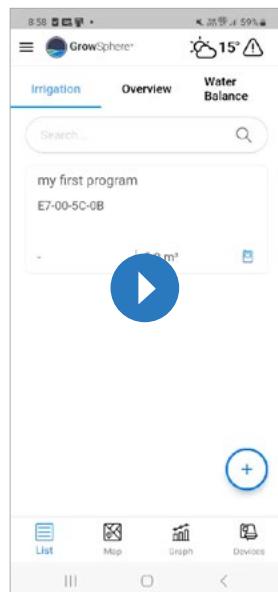
Follow the on-screen instructions to set alarms and delay parameters according to your system requirements, example image:

Step 5 - Add a dosing recipe (optional)

- This step is optional and can be completed at a later time.
- Once your FLEX device is fully configured, irrigation and fertilization can begin.
- To add your first dosing recipe, open the DEVICES menu.
- Select the relevant device.

Click
Dosing
Recipes
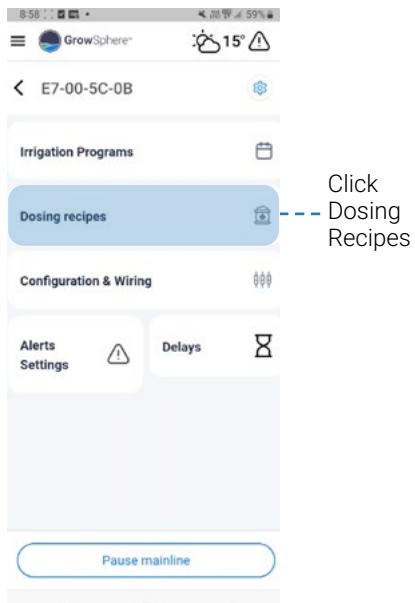
Follow the on-screen instructions to create and save the recipe
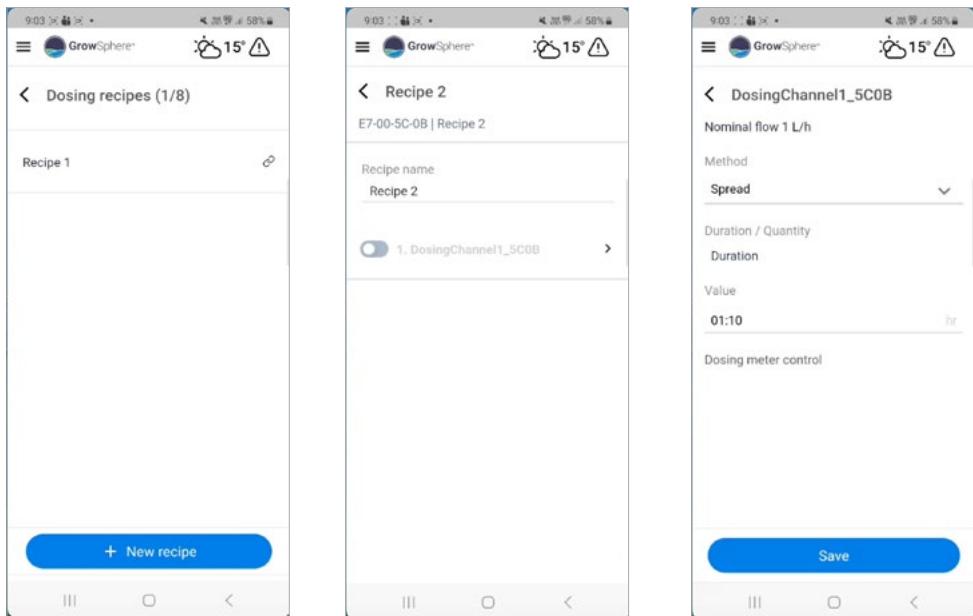
Short how to video:
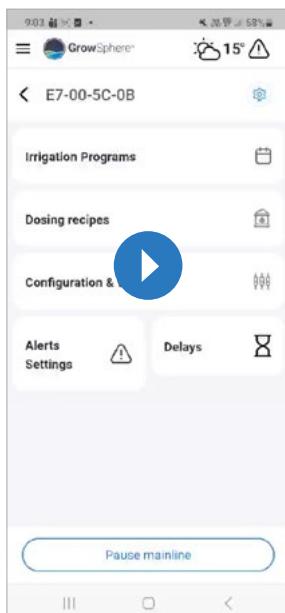
Step 6 - Create an irrigation program

- From the Home screen, tap the + icon (bottom right).

Select Create Program
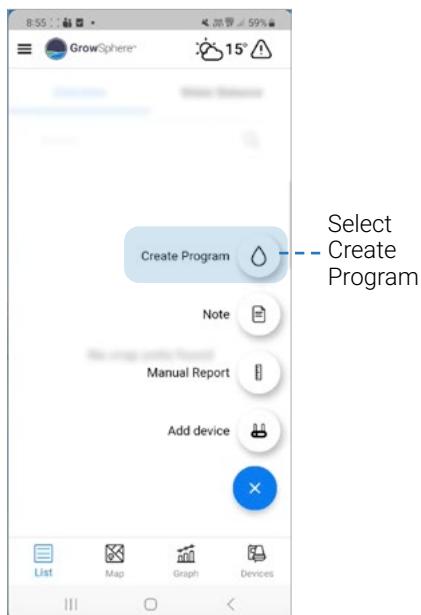
- Follow the step-by-step setup process:
  » Enter a name for the program.
  » Define the irrigation shifts.
  » Set the irrigation amount, duration, or type.
  » Assign a dosing recipe from the existing recipes list (if applicable).
  » Select the irrigation schedule (days or interval).
  » Set the program start times.
- The irrigation program is now ready to run.

Short how to video:

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www.netafim.com