

GrowSphereTM **ONE**

Field Monitoring Unit

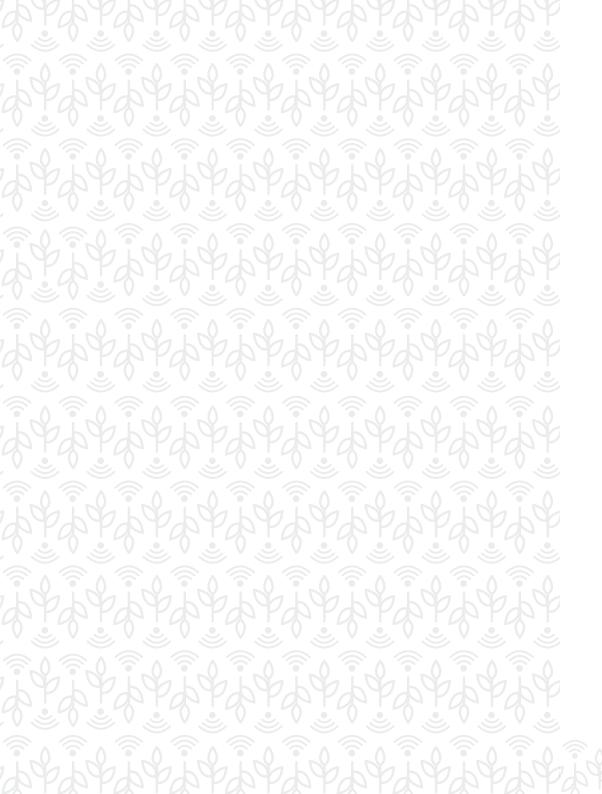
GrowSphere[™] **ONE** is a stand-alone monitoring unit that can be connected to a wide range of sensors to collect real-time data from the field, enabling optimal irrigation management

Quick Setup

V1 - July 2023

NETAFIM" DIGITAL FARMING





/What's in the box



* For the separated solar-panel configuration, two sets of 5m cable will be supplied (both for the antenna and the solar panel)

/Technical specifications

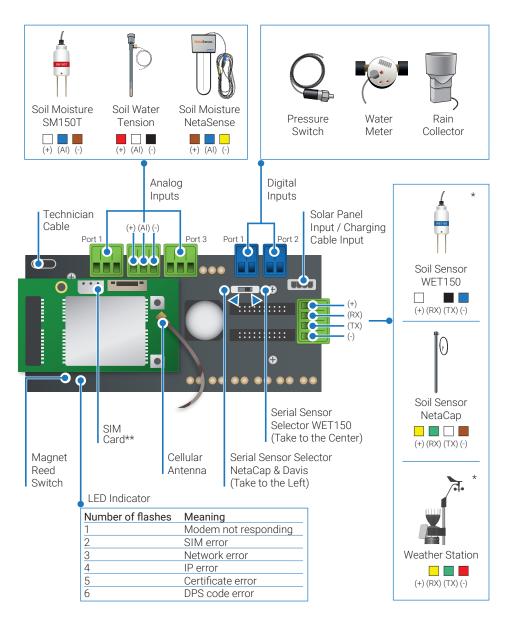
Solar panel	4.4 Watt
Charging cutoff voltage	4.2V
Nominal charging current	1A
Battery rechargeable li-ion pack	3.7V 5200mAh
Max quiescent current	<3mA
Max quiescent current Operational mode	<3mA 0.1mA

/Environmental features

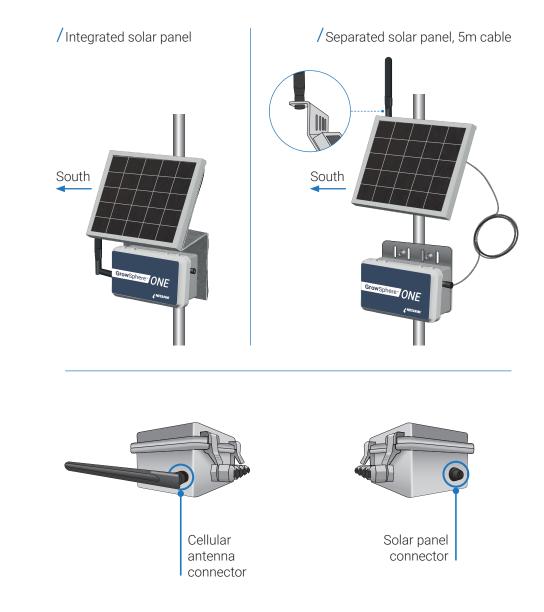
- Working temperature -10°C to 65°C (14°F to 147°F)
- Storage temperature -30°C to 70°C (-22°F to 158°F)
- Air humidity 0% to 95%

/Supported sensors

- Analog Input (X3)
- Serial Input
- Digital Input (X2)
- * Maximum 4 sensors can be connected simultaneously per unit



/Initial Setup



* Stay updated with your Netafim representative for sensor compatibly. ** The unit is provided with a SIM card /Prior to configuration, ensure the unit is charged for a minimum of 5 hours, by using the provided charging cable (as demonstrated in the diagram below). After charging, disconnect the cable and connect the solar-panel cable instead



/In the App folder, click on the EXE. file. The user-name and password are not required. Instead, click on the 'Login'

/ Select Device

Select your device

Select Device
Unit E7-00-00-2A - ONE
Unit E1-23-33-5C - ONE
Unit E1-00-23-3V - ONE

/	TechAp

TechApp Configure your unit by following the instructions below, based on the sensors you wish to connect. To begin, select Unit Parameters

<	TechApp	×
	Unit E7-00-00-2A - ONE	
	Unit Parameters	
	Network	
	Configuration	
	Status	
	Project	

/Unit Parameters

The parameters are read-only. Click 'Save'

Unit Parameters
Unit E7-00-00-19 - ONE
Unit ID
E7-00-00-19
Unit Type
ONE
Device Time
16/05/2023 12:06:10
Version
3.1.9
Battery
Sample Interval
15 Minutes *
Transmission Interval
Read Cancel Save
Read Cancel Save

/Sensors Configuration

Select the sensors you wish to connect

< Sensors Configuration	×
Unit E7-00-00-2A - ONE	
Г	_
Al1 - Tensiometer	
AI2 - NetaSense	
AI3 - PressureSensor	
DI1 - Water Meter	
DI2 -	
SERIAL1 - NetaCap20	
Table View Send Topology	
Sena lopology	

* It is recommended at this stage to physically connect the sensors to the device

/ Port Config for serial sensors

Define the Sensor Type and Sensor Depth. Check the Active box and then click Save

			-		×
<	Po	rt Config			
	Unit E7-00	-00-7A - O	NE		
				_	
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	Read	Cancel	Save		
	Read	Cancel	Save		

/ Port Config for Digital sensors

Define the Sensor Type, Sensor Name and Pulse Volume. Check the Active box and then click Save. Please note: Metric / Imperial units can be selected

Port Config
Unit E7-00-00-7A - ONE
DI1 -
Active Metric Imperial Metric

/ Port Config for Analog sensors

Define the Sensor Type, Sensor Name and Sensor Depth. Check the Active box and then click Save

Port Config Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth 90 CM	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth	Unit E7-00-00-7A - ONE Al1 - NetaSense Active Sensor Type Tensiometer Sensor Name avi meter Select Depth		
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Quick check-list:

- Ensure the serial sensor selector is in the proper position (please see Wiring Diagram)
- Ensure the Active box is checked
- Activated ports should be highlighted in blue

/Network

Now you can disconnect the cable, the unit is ready for field installation. Please note, from the moment the unit is activated, it will stay active for 15 minutes. If Modem Status is "Not connected", you can use the magnet or select 'Read' and then 'Connect' to activate it

	-
Network	
Unit E7-00-00-1A - ON	F
0111 27-00-00-174 - 014	•
APN	
olive.net	
ID-Scope	
ne006BA13B	
otHub	
ag-netbeatvx-loTHub-weu.azure-de	
Nodem Status	
onnected	
Process	
one (9/9)	
Error	
Connect Read Cancel	Save

/ Sign-up to GrowSphere[™] Cloud

Create your GrowSphere[™] account or log in to an existing account. A link was sent to you by your Netafim representative

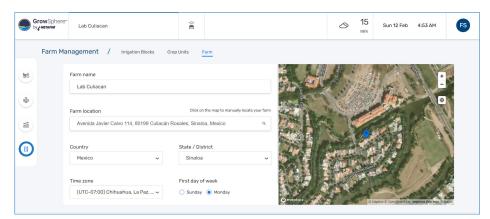
	First name	Last name
	First name	Last name
	Username	Phone number
Grow Sphere [™]	Username	Phone number
	E-mail	Country
	ziv.omer@netafim.com	Select country 🗸
Hey! Welcome		
Join us and start growing	Unit system	Company
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l'm already a member		
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NETAFIM " Orbia 💭		
	Yes, I'd like to receive product updates and e By creating an account, you agree to Neta	xclusive offers from Netafim. I can unsubscribe at a later time
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/Log-in to your GrowSphere[™] Cloud account

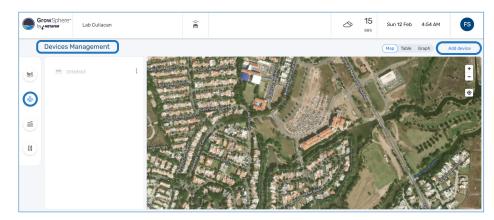


11

/Setup your Farm



/Navigate to 'Add device'



Add Device

- Choose 'ONE'
- Input your unit's MAC address
- Click 'Connect'

Add device
Which source would like to add?
Controller / PLC rLink ONE 3rd Party Service
Please check that your ONE device is turned on, You can use a magnet to initiate.
E7-00-00-19 Scan Code
Connect

/ Device is active and connected

Add device				
Which source would like to add?				
		P		
Contr	roller / PLC rLink	ONE	3rd Party Service	
Please check that your ONE device is turned on, You can use a magnet to initiate.				
	MAC address			
	E7-00-00-19	Sca	in Code	
Device is active and connected				
	Procee	d		

/Process completed - Congratulations! The set-up process is now completed

Add Device			
Connecting to the device			
O	Validate		
e	Activating device		
O	Connect		
•	Request Topology		
0	Process Topology		
	Close		

/Recommended next steps

- You can name each device By default, the device name will be its serial number
- Define thresholds for relevant sensors according to your preferences
- Create Irrigation Blocks and Crop Units
- Assign the devices to their relevant Irrigation Block
- Define a leading sensor, that ultimately represents your Irrigation Block's status

/View your Device

Your device and the connected sensors will appear on the menu, in the 'Devices Management' screen



GrowSphere™ Operating System Operating System

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