



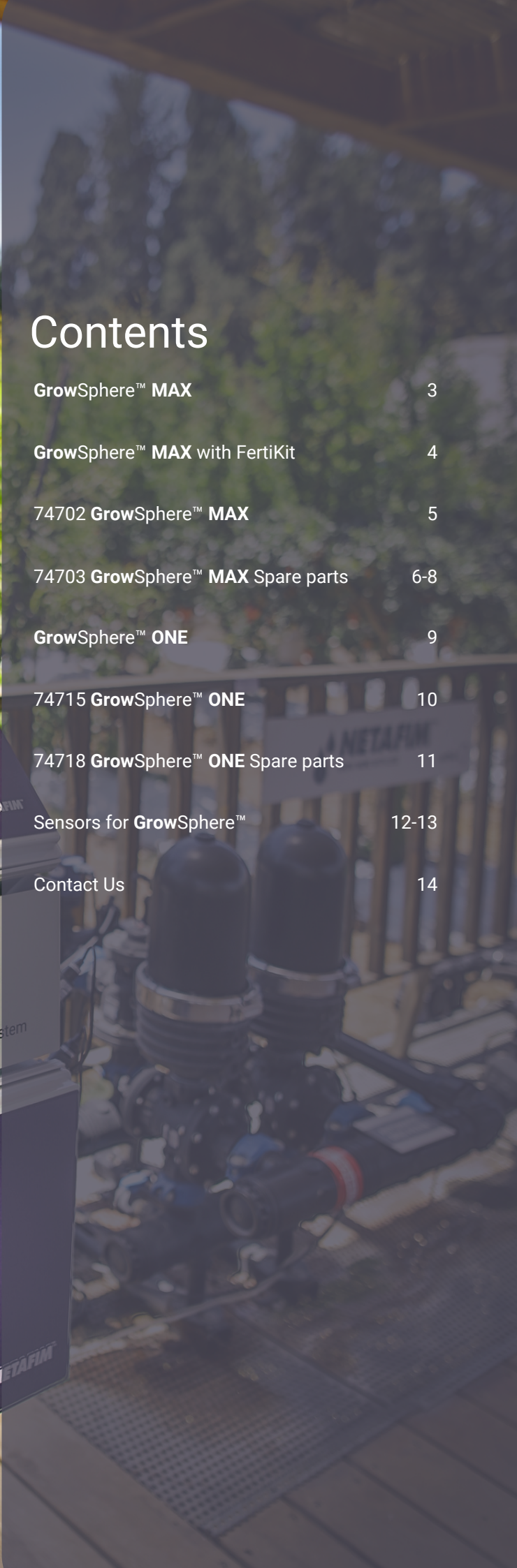
GrowSphere™ Catalog

V4-OCT-2024



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GrowSphere™ MAX

GrowSphere™ MAX is an intuitive and simple-to-use controller designed to speak the language of growers. GrowSphere™ MAX regulates water and fertilizer delivery in a precision irrigation system, activating local and remote devices such as pumps, valves, filters, dosing pumps, and other hydraulic components.

GrowSphere™ MAX - Configurations



GrowSphere™ MAX
Without screen



GrowSphere™ MAX
With screen



GrowSphere™ MAX
Double door with screen

Technical Specifications

Processor Module - PM5052

Custom ABB controller

- Memory - 80MB
- 12 DI
- 6 DO
- 1 x RS232 Communication Port for external devices
- 1 x RS485 Communication Port for external devices

Screen

- Input - 24VDC
- CPU - quad-core 1.8GHz
- O.S - Linux
- Resolution - 1280*800
- Screen Saver - after 10 min

Power Supply

- Main Input - 100 ~ 240 VAC
- 50-60Hz according to configuration
- Rated current - 2.5A @ 24v
- Aux Output PS 5V

Cellular Modem - 4G/3G/2G

- 2 Ethernet ports
- Global SIM installed
- Wireless access point

Remote Terminal Units

- RadioNet
- SingleNet

Expandable I/O Modules

Triac output Module:

- 8 x 24VAC output
- High-speed operation of dosing output
- current per channel = 2 A

Relay output Module:

- 16 x 24VAC
- Fuse protected outputs
- Rated current per group = 10A max

Digital Input module:

- 16 Digital inputs
- Feed (Sourcing) voltage – 24 VDC
- Maximum 4 pulses in Sec (Software limitation)

Analog Input module:

- 4 Analog inputs
- Feed (Sourcing) voltage – 24 VDC
- Resolution – 0-20mA; 4-20mA; 12 bit

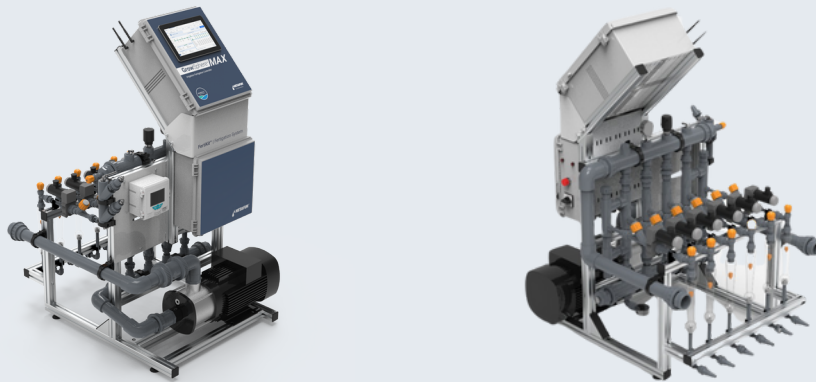


GrowSphere™ MAX with FertiKit

FertiKit™ 3G with **GrowSphere™ MAX** - For Open Field Nutrigation Application

- ABB AWT420 EC-pH Transducer
- Quantitative or proportional nutrigation up to 700 m3/hr
- Inline / ST 1-18 M3/hr
- ByPass 20-700 m3/hr
- Venturi operating principle – no moving parts
- Manual or fully automated

For full SKUs list: <http://cmtconfig.netafim.com>



74702 GrowSphere™ MAX

Material	Description
GS-MAX-DISPLAY	
74702-000001	GS-MAX-DISP-220V-6DO-12DI
74702-000062	GS-MAX-DISP-220V-22DO-12DI-4AI-8TRC
74702-000063	GS-MAX-DISP-110V-6DO-12DI
74702-000065	GS-MAX-DISP-220V-22DO-12DI
74702-000067	GS-MAX-DISP-220V-6DO-12DI-8TRC
74702-000068	GS-MAX-DISP-110V-6DO-12DI-8TRC
GS-MAX-NO DISPLAY	
74702-000049	GS-MAX-NO_DISP-220V-6DO-12DI-8TRC
74702-000051	GS-MAX-NO_DISP-110V-6DO-12DI-8TRC
74702-000052	GS-MAX-NO_DISP-220V-6DO-12DI
74702-000054	GS-MAX-NO_DISP-110V-6DO-12DI
74702-000073	GS-MAX-NO_DISP-110V-6DO-12DI-8TRC_USA
GS-MAX-DD	
74702-000048	GS-MAX-DD-110V-6DO-12DI-8TRC
74702-000050	GS-MAX-DD-220V-6DO-12DI-8TRC
74702-000069	GS-MAX-DD-220V-6DO-12DI
74702-000070	GS-MAX-DD-110V-6DO-12DI
74702-000072	GS-MAX-DD-110V-6DO-12DI_USA
74702-000074	GS-MAX-DD-110V-6DO-12DI-8TRC_USA



74703 GrowSphere™ MAX Spare-Parts

Material	Description		
EXPANSION MODULES			
74743-000098	GS-MAX 16 DO-573 RELAY WITH ADAPTOR	74743-000099	GS-MAX 8 DO-572 TRIAC WITH ADAPTOR
	• 16 Outputs - Relay • Shared Common • Kickback protection • 24 VAC @ 80 VA		• 8 x 24VAC output • High-speed operation of the dosing output
74743-000100	GS-MAX 4 AI-561 WITH ADAPTOR	74743-000101	GS-MAX 16 DI-562 WITH ADAPTOR
	• 4 Analog Inputs • Active/ Passive Sensor • 0-20 mA • Feed Voltage – 24 DC		• 16 Digital Inputs • Dry/ Active Contact • Feed voltage - 24 DC



74703 GrowSphere™ MAX Spare-Parts

Material	Description
74703-000001	SWITCH_KIT_FOR_GS_MAX
74703-000003	GS-MAX POWER SUPPLY 60W 24V DC
74703-000004	GS-MAX POWER SUPPLY 15W 5V
74703-000005	GS FLOLIVE SIM CARD 10PCS
74703-000012	GS-MAX WI-FI ANTENNA 2.4G-5G SMA
74703-000013	GS MODEM ROUTER RUT-241 GLOBAL
74703-000014	GS MODEM ROUTER RUT-241 US
74703-000017	GS MAX ADAPTOR CARD FOR D0573
74703-000018	GS MAX ADAPTOR CARD FOR D0572
74703-000019	GS MAX ADAPTOR CARD FOR AI561
74703-000020	GS MAX ADAPTOR CARD FOR DI561
74703-000021	GS MAX ADAPTOR CARD FOR PM5052-R
74703-000022	GS-MAX ELECTRICITY CONNECTOR
74703-000023	GS-MAX-PLC 80MB
74703-000024	GS-MAX-TOUCH SCREEN PEN
74703-000025	GS-MAX - GLOBAL CELL_ANTENNA
74703-000026	GS-MAX - US CELL_ANTENNA



74703 GrowSphere™ MAX Spare-Parts

Material	Description
74703-000027	GS-MAX RASPBERRY PI KIT
74703-000029	GS-HIGH GANE ANTENNA FOR MAX/IOT
74702-000077	ALUMINUM STAND FOR GS-MAX STAND ALONE



GrowSphere™ ONE

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

GrowSphere™ ONE - Configurations



GrowSphere™ ONE
Integrated solar panel



GrowSphere™ ONE
External solar panel



GrowSphere™ ONE
Without solar panel

Technical Specifications

Solar panel	5.5 Watt
Battery rechargeable li-ion pack	3.7V 5200mAh
Outdoor installation	IP65, UV protected
Standard compliance	CE & FCC*

* Certification in process

Environmental specifications

- Working temperature -10°C to 55°C (14°F to 131°F)
- Storage temperature -20°C to 60°C (-4°F to 140°F)
- Air humidity 0% to 95%

Supported sensors

- Analog input (X3)
- Serial input (X1)
- Digital input (X2)



74715 GrowSphere™ ONE G2

Material	Description
74715-000013	GS ONE G2 INTEGRAL PANEL PV5.5W
74715-000014	GS ONE G2 EXT. PANEL PV 5.5W
74715-000015	GS ONE G2 POWER-BASED W/O PANEL



74718 GrowSphere™ ONE G2 Spare-Parts

Material	Description
74718-000001	GS 5M-RF-CABLE M TO F
74718-000002	GS SOLAR PANEL 11W w/5M CABLE
74718-000003	GS-SOLAR PANEL-KIT-5.5W-5M CABLE
74718-000004	GS IOT SIM-5GB
74718-000005	GS IOT BASE PLATE + BIRD SPIKES KIT
74718-000006	GS-IOT MOBILE SMA ANTENNA
74718-000007	GS-IOT USB A TO USB C - L90CM
74718-000008	GS-IOT ACTIVATION MAGNET
74718-000009	GS-IOT CHARGING CABLE



Sensors for GrowSphere™

GrowSphere™ Integrates Seamlessly with All Your Sensors.



Soil & Plant Sensors

Get real-time data on the soil moisture and temperature at various depths, along with comprehensive data on the plant status.

Sensor types:

- NetaCap
- SM150T
- NetaSense
- Tensiometer
- Dendrometer



Hydraulic Sensors

Get immediate confirmation that valves were open/close and different commands were executed as planned.

Sensor types:

- Water meter
- Pressure sensor
- Pressure switch



Weather Sensors

Monitor weather-related parameters such as solar radiation, relative humidity and precipitation.

Sensor types:

- Davis weather station
- Rain collector
- Temperature & Humidity
- Solar radiation

Sensors

MATERIAL	DESCRIPTION
74730-000007	SOIL MOISTURE NETACAP BP 2/20CM
74730-000013	SOIL MOISTURE NETACAP BP 3/30CM
74730-000008	SOIL MOISTURE NETACAP WP 4/40CM
74730-000009	SOIL MOISTURE NETACAP WP 6/60CM
74730-000011	SOIL MOISTURE NETACAP WP 6/80CM
74730-000021	SOIL MOISTURE NETACAP WP 6/120CM
74730-000010	SOIL MOISTURE SM150T- DELTAT
74390-003800	SOIL MOISTURE NETASENSE 0.5-5MA
74280-003015	SOIL MOISTURE NETASENSE 4-20MA



Sensors

Material	Description
74730-000001	TENS.MS -30/12-IRROMETER
74730-000002	TENS.MS -60/24-IRROMETER
74730-000003	TENS.MS -90/36-IRROMETER
74730-000004	TENS.SS -30/12-IRROMETER
74730-000005	TENS.SS -60/24-IRROMETER
74730-000006	TENS.SS -90/36-IRROMETER
74730-000090	DENDROMETER STALK DIAMETER-ECOMATIK
74730-000091	DENDROMETER TRUNK DIAMETER-ECOMATIK
74320-000001	STANDALONE RAIN COLLECTOR-PRONAMIC
74320-000002	0.5 BAR PRESSURE SWITCH IRRIG.MONITOR
74320-000005	1.0 BAR PRESSURE SWITCH IRRIG.MONITOR
74320-000003	1.5 BAR PRESSURE SWITCH IRRIG.MONITOR
74320-000006	0–10 BAR PRESSURE SENSOR IRRIG.MONITOR
70240-005720	ARAD FERTILIZER METER SF 1/2" EV 1L
74730-000050	DAVIS WS GROWSPHERE DIRECT FULL PACK
74730-000028	DAVIS WS VANTAGE PRO2, CELLULAR, USA
74730-000027	DAVIS WS VANTAGE PRO2, CELLULAR, REGION A
74730-000026	DAVIS WS VANTAGE PRO2, CELL, REGION B/C
74320-000004	PYRANOMETER RAD.RK200-03 10M CAB+BRACET
74703-000002	MAX MEASURING BOX SE TEMP&HUMIDITY





A **Simpler Way** to Manage Precision Irrigation

CONTACT US

 www.netafim.com

