

OSMAC® G3 Satellite User's Guide



Table of Contents

Introduction		- 1
Home Screen		- 1
Menu Navigation		- 1
Modes of Operation		- 2
Setting the Clock and Mode		
Clock Set		- 2
Clock Mode		2–3
Setting the Date and Mode		
Date		- 3
Date Mode		- 3
Setting Scheduled Watering		- 4
Setting OSMAC G3 for Radio Communications		
Satellite Address		- 6
Satellite Radio Frequency		- 6
Settings Menu		
Station Settings		- 7
Comm Mode		- 8
Reset Prg's		- 8
Reset Sta's		- 9
Reset Unit		- 9
Enable Sta's		- 9
Clock Set		10
Clock Mode		10
Date Mode		10
Date		11
Sat Address		11
Max Sim Sta		11
Display Adj		12
Radio Settings		12
Manual Watering		
M-Manual		14
Programs		14
Syringe		15
Communication		
Page Monitor		15
Page History		15
Radio Menu		
Sat Address		15
Comm Mode		
What's Running		16
Diagnostics		
Revision		16
Event Codes		16
VA Monitor		
Station Test		16
Seg Stations		
Specifications		
Electronic Compatibility B	ack (Cover

Introduction

The Toro® OSMAC® G3 Satellite combines modular flexibility, ease of use and increased programmability in a single controller.

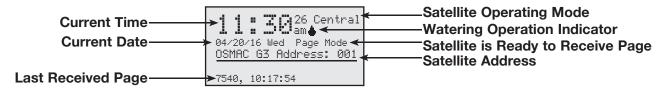
Modularity means flexibility. The OSMAC G3 is available from 16 to 64 stations, and can expand in 8-station increments to meet your needs. Optional station switch capability and surge protection provide simple operation and added security.

The intuitive OSMAC G3 user interface is easy to use and includes a back light for improved visibility in low-light conditions, yet it is completely viewable in direct sunlight. The faceplate's simple navigation arrows and Select button allows for easy navigation and faster menu selection.

With 12 irrigation programs, the OSMAC G3 satellite allows programming to the station level. Discrete local and central modes make stand-alone and central controlled operations independent from one another, while the ability to run up to 16 stations simultaneously lets you irrigate a wide variety of landscapes.

Home Screen

Press any button, except the left arrow, to access the menus and settings from the home screen.



Menu Navigation

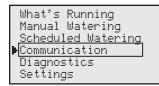
Select button – Press the Select button to select a menu or change a setting or value. When a setting or value is selected, the cursor changes to a dark background and the setting or value can be changed by using the UP and DOWN buttons. Pressing the Select button again will return the UP and DOWN buttons to navigation mode.

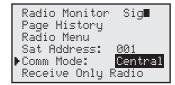
UP and DOWN button – In navigation mode, the UP and DOWN buttons navigate up and down though the menu selections. In the edit mode, they change settings and values. Use the Select button to change between navigation and edit mode.

LEFT and RIGHT button – The LEFT and RIGHT buttons are used to navigate left and right in a menu. The LEFT button is also used as a back button to return to the previous menu. If the LEFT button is pressed in the navigation mode, the menu will return to the previous one. To get back to the home screen, keep pressing the LEFT button in the navigation mode.

Modes of Operation

The Toro OSMAC G3 Satellite can be placed in three operating modes: Central mode, Local mode and Off mode.







Radio Monitor Sig Page History Radio Menu Sat Address: 001 Comm Mode: Off Receive Only Radio

Central Mode – When placed in Central mode, the OSMAC G3 satellite will wait and execute radio commands sent by the central. The satellite will ignore all scheduled watering but will execute manual watering.

Local Mode – When placed in Local mode, the OSMAC G3 will execute scheduled watering as well as manual watering. Radio commands will be ignored.

Off Mode – When placed in Off mode, the OSMAC G3 will not execute any watering operation whether it is scheduled or manually initiated. Any watering operation will terminate once the satellite is placed in Off mode. Watering operations will resume once the satellite is placed back to Central or Local mode.

Setting the Clock and Mode

Clock Set

What's Running Manual Watering Scheduled Watering Communication Diagnostics ▶Settings ▶Clock Set: 11:15am Clock Mode: Am/Pm Date Mode: MMDDYY Date: 01/01/16 Fri Sat Address: 001 Max Sim Sta: 05

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Clock Set is selected and press Select to edit.
- Step 4 Use the LEFT and RIGHT buttons to navigate between the HOURS and MINUTES parameters.

 To edit the values, use the UP and DOWN buttons to increase or decrease the HOURS and MINUTES.
- Step 5 Press Select once the correct time is set.

Clock Mode

What's Running Manual Watering Scheduled Watering Communication Diagnostics Marketings Clock Set: 11:15am Clock Mode: Am/Pm Date Mode: MMDDYY Date: 01/01/16 Fri Sat Address: 001 Max Sim Sta: 05

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select

- Step 3 Press DOWN until Clock Mode is selected and press Select to edit.
- Step 4 Use the UP and DOWN buttons to select between Am/Pm (12-Hour format) or 24 Hrs (International format).
- Step 5 Press Select once the correct format is selected.

Setting the Date and Mode

Date

What's Running Manual Watering Scheduled Watering Communication Diagnostics Settings Clock Set: 11:15am Clock Mode: Am/Pm Date Mode: MMDDYY Date: 11/01/16 Fri Sat Address: 001 Max Sim Sta: 05

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Date is selected and press Select to edit.
- Step 4 Use the LEFT and RIGHT buttons to navigate between the DAY, MONTH and YEAR.

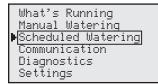
 To edit the values, use the UP and DOWN buttons to increase or decrease until the correct DAY, MONTH and YEAR is displayed.
- Step 5 Press Select once the correct date is set.

Date Mode

What's Running Manual Watering Scheduled Watering Communication Diagnostics Mattings Clock Set: 11:15am Clock Mode: Am/Pm Date Mode: MMDDYY Date: 01/01/16 Fri Sat Address: 001 Max Sim Sta: 05

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Date Mode is selected and press Select to edit.
- Step 4 Use the UP and DOWN buttons to select between MMDDYY (Month/Day/Year) or DDMMYY (Day/Month/Year) format.
- Step 5 Press Select once the correct format is selected.

Setting Scheduled Watering



Note: In order to run Scheduled Watering, you must set the OSMAC G3 controller to Local mode operation. See Comm Mode under Settings Menu section.

Step 1 – While at the Home display, press Select to access the controller menu.

Step 2 - Press DOWN until Scheduled Watering is selected and press Select

Step 3 – Use the UP, DOWN, LEFT and RIGHT \(\bigcup \) arrows to navigate between the parameters.

P01 - Program Designation

Select the Program you want to edit by selecting **P01** and pressing the **Select** button . Use the **UP** and **DOWN** arrows to increase or decrease the program number. The OSMAC G3 controller will allow you to program up to 12 independent schedules. Press **Select** to make the selection.

100% - Watering Percentage

Adjust the Schedule's watering percentage by selecting **100**% and pressing the **Select** button the **UP** and **DOWN** arrows to increase or decrease the watering percentage. Watering can be increased up to 250% of the scheduled watering time or decreased down to 10% of the scheduled watering time. Press **Select** to finalize the change.

Days / Water Every - Assigned Active Watering Days

Select the watering interval by selecting **Days** and pressing the **Select** button . You can select between **Days** or **Water Every** option.

Selecting **Days** option allows you to select a unique 2-week watering combination. Press **DOWN** until **set>**: option is selected and press **Select**. Scroll through the selection using the **UP** and **DOWN** arrows.

P01 100% 00:00:00
Days: SMTWTFSSMTWTFS

WEnd: #00000#00000#
Start : 01 05:00am
Sta#: 01-05 05 min
Simult : 06

P01 100% 00:00:00
Days: SMTWTFSSMTWTFS
▶WDay: ■DDDDD■■DDDD■
Start : 01 05:00am
Sta#: 01-05 05 min
Simult : 06

None - disable all days for watering.

WEnd - Selects only Saturdays and Sundays for watering while weekdays are non-watering days.

WDay - Selects Monday through Friday for watering and weekends are non-watering days.

Alt1 - Selects every other day as active watering days starting with Sunday.

Alt2 - Selects every other day as active watering days starting with Monday.

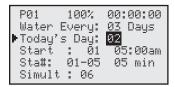
All - Selects everyday as watering days.

set> - Allows you to activate and deactivate any of the days within the 2-week schedule. Use the **LEFT** and **RIGHT** arrows to navigate through the individual days and use the **UP** and **DOWN** arrows to activate (solid box) or deactivate (empty box).

Press **Select** to finalize the change.

Selecting **Water Every** option allows you to adjust how many interval days between scheduled watering. It also gives you the flexibility to set the position of the current day within the watering interval.

Example: Set watering to every 3 days with the current day being the 2nd day (water the next day).



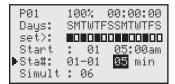
Start - Scheduled Start Times

The OSMAC G3 allows you to set up to 24 start times. Select the **Start:** to set or edit the start time and press the **Select** button . Use the **UP** and **DOWN** arrows to select the start time number you want to edit and press the **Select** button . Use the **LEFT** and **RIGHT** arrows to navigate between Minutes and Hours. Use the **UP** and **DOWN** arrows to adjust the minutes and hours. Press **Select** when the desired start time is set. Repeat the **Start** procedure to add additional start times.

Sta# - Assigned Station(s) and Runtime(s)

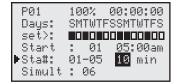
Set the stations you want to activate during the schedule by selecting **Sta#** and pressing the **Select** button . Use the **UP** and **DOWN** arrows to select the station you want to activate, then use the **LEFT** and **RIGHT** arrows to navigate to the runtime. Use the **UP** and **DOWN** arrows to set the desired runtime for that station.

Example: Activate station 1 with 5-minute runtime.



If sequential stations will be running the same amount of runtime in the schedule, you can easily accomplish this by setting the 1st station in the sequence followed by the last station in the sequence and setting the runtime that each station will run.

Example: Activate stations 1 through 5 with 10-minute runtime per station.



Repeat the **Sta#** procedure to set additional stations and runtimes. Press **Select** when all the desired stations and runtimes are set.

Simult - Assigned the Maximum Number of Simultaneously Active Stations

Set the maximum number of stations that can simultaneously be activated. The OSMAC G3 controller will allow you to set a maximum of 16 total stations that can run simultaneously. However, there may be cases where less stations can be simultaneously activated.

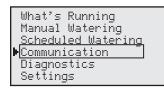
Set the maximum number of simultaneously active stations by selecting **Simult:** and pressing the **Select** button . Use the **UP** and **DOWN** arrows to set the maximum number of station you want to activate simultaneously, then press the **Select** button to accept.

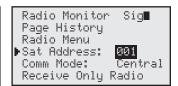
Step 4 – Repeat **Setting Scheduled Watering** procedure for setting additional programs.

Setting OSMAC G3 for Radio Communications

In order to send page commands to the OSMAC G3 controller, you must set and coordinate the satellite address and the transmitting and receiving frequency with the radio system being used.

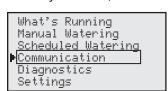
Satellite Address - Satellite address is the identification that is given to a particular satellite. In order to communicate with individual satellites, each satellite is given a unique satellite address. When a page is sent to that satellite address, only the intended satellite will respond and the other satellites will ignore the page command.

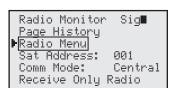


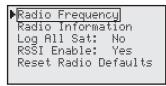


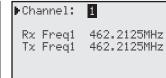
- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Communication is selected and press Select
- Step 3 Press DOWN until Sat Address is selected and press Select
- Step 4 Use the UP and DOWN arrows to select the satellite address you want to set.
- Step 5 Press Select to finalize.

Satellite Radio Frequency - The OSMAC G3 radio is preprogrammed with 6 radio frequencies that are frequently used in Toro irrigation systems. In cases where these preprogrammed frequencies are not suitable or available for use in your area, each of the frequencies can be edited to the desired frequency.









- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Communication is selected and press Select
- Step 3 Press DOWN until Radio Menu is selected and press Select
- Step 4 While Radio Frequency is selected, press Select
- Step 5 While Channel is selected, press Select
- Step 6 Use the UP and DOWN () arrows to scroll through the frequency channel selections.
- Step 7 Press Select once the proper frequency channel is selected.
- Step 8 If the 6 preprogrammed frequencies are not suitable for your use, you can edit any of the frequency channels. Follow steps 5-7 to select the frequency channel you want to edit. Use the **UP** and **DOWN** arrows to select Rx (Receive) frequency, then press **Select**.
- Step 9 Use the UP and DOWN arrows to modify the values and use the LEFT and RIGHT arrows to navigate between values. Press Select once the correct frequency value is set.

 Repeat steps 8 and 9 for Tx (Transmit) frequency. Rx and Tx frequency should match for proper operation.

Settings Menu

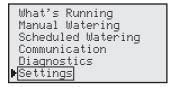
Station Settings

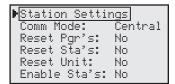
Station Settings allows you to configure each station as an irrigation station or a switch. When a station is configured as a switch, that station is not affected by the rain delay function. When a switch is activated, it does not activate the pump terminal.

Step 1 - While at the Home display, press Select to access the controller menu.

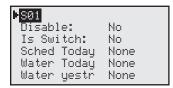
Step 2 - Press DOWN until Settings is selected and press Select

Step 3 – While Station Settings is selected and press Select





S01 - Select which station you want to edit. While S01 is selected, press Select arrows to select the station number you want to edit. Press Select when the correct station number is displayed.



Disable - Use this function when you need to disable a station from activation indefinitely. Once disabled, the station will not activate for all scheduled and manual watering. Watering activity will only resume once the station's Disable function is set back to No. Use the UP and DOWN arrows to select Disable and press Select . Use the UP and DOWN arrows to select Yes or No. Press Select when the correct selection is set.



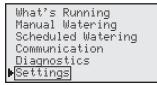
Is Switch - Set the station to switch when using it to activate a relay or any devices other than the irrigation system. When the station is set to switch, it is not affected by the rain delay function. The pump terminal will also not activate when the switch is activated. Use the UP and DOWN arrows to select Is Switch and press Select Use the UP and DOWN arrows to select Yes or No. Press Select when the correct selection is set.

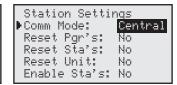
Sched Today - Schedule today will indicate if the station is set to a schedule that will irrigate today. This is a monitor only parameter and can not be modified.

Water Today - Water today will indicate if the station was activated today. This is a monitor only parameter and can not be modified.

Water Ystr - Water yesterday will indicate if the station performed watering the day before. This is a monitor only parameter and can not be modified.

Comm Mode





Station Settings
Comm Mode: Local
Reset Pgr's: No
Reset Sta's: No
Reset Unit: No
Enable Sta's: No

Station Settings
Comm Mode:
Off
Reset Pgr's: No
Reset Sta's: No
Reset Unit: No
Enable Sta's: No

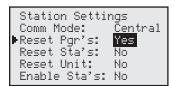
Central Mode – When placed in Central mode, the OSMAC G3 satellite will wait and execute radio commands sent by the Central mode. The satellite will ignore all scheduled watering but will execute manual watering.

Local Mode – When placed in Local mode, the OSMAC G3 will execute scheduled watering as well as manual watering. Radio commands will be ignored.

Off Mode – When placed in Off mode, the OSMAC G3 will not execute any watering operation whether it is scheduled or manually initiated. Any watering operation will terminate once the satellite is placed in Off mode. Watering operations will resume once the satellite is placed back to Central or Local mode.

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Comm Mode is selected and press Select
- Step 4 Use the UP and DOWN arrows to select between Central, Local and Off modes.
- Step 5 Press Select when the proper mode of operation is set.

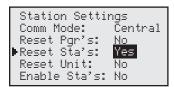
Reset Prg's



Selecting **Yes** to this menu will erase all scheduled programs and reset all their parameters to 100% watering adjustment, everyday watering, no start time, no set station, and one simultaneous station only.

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Reset Prg's is selected and press Select
- Step 4 Use the UP and DOWN arrows to select Yes.
- Step 5 Press Select when finished.

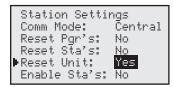
Reset Sta's



Selecting **Yes** to this menu will reset all the stations to the default settings. All the stations that were set as switches will reset as stations once again. All the stations that were disabled will once again reset as active.

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Reset Sta's is selected and press Select
- Step 4 Use the UP and DOWN arrows to select Yes.
- Step 5 Press Select when finished.

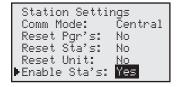
Reset Unit



Selecting **Yes** to this menu will reset the OSMAC G3 controller to factory default values. All the parameters will reset except for satellite address, radio frequency and Communication mode.

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Reset Unit is selected and press Select
- Step 4 Use the UP and DOWN arrows to select Yes.
- Step 5 Press Select when finished.

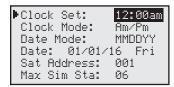
Enable Sta's



Selecting **Yes** to this menu will reset all the stations to active status. When a few stations are set to switches, you can easily reset them to stations all at once by using **Enable Sta's**.

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Reset Sta's is selected and press Select
- Step 4 Use the UP and DOWN arrows to select Yes.
- Step 5 Press Select when finished.

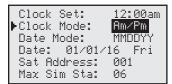
Clock Set



- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Clock Set is selected and press Select
- Step 4 Use the LEFT and RIGHT arrows to navigate between the hour and minute parameters.

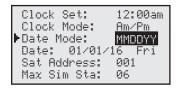
 Use the UP and DOWN arrows to set the correct hour and minute values.
- Step 5 Press Select when finished.

Clock Mode



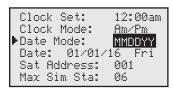
- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 4 Use the UP and DOWN arrows to select between Am/Pm (12-hour mode) and 24 Hrs (24-hour mode).
- Step 5 Press Select when finished.

Date Mode



- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select .
- Step 3 Press DOWN until Date Mode is selected and press Select
- Step 4 Use the UP and DOWN arrows to select between MMDDYY (Domestic mode) and DDMMYY (International mode).
- Step 5 Press Select when finished.

Date



- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Date is selected and press Select ...
- Step 4 Use the LEFT and RIGHT arrows to navigate between the Day, Month and Year parameters.

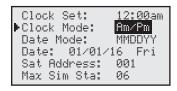
 Use the UP and DOWN arrows to set the correct Day, Month and Year.
- Step 5 Press Select when finished.

Sat Address



- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Sat Address is selected and press Select
- Step 4 Use the UP and DOWN arrows to set the desired satellite address. For independent operation, use a unique address from other satellites. If the satellite belongs to a group that will operate in synchronous with each other, use the same address as the satellites within the group.
- Step 5 Press Select when finished.

Max Sim Sta



- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Max Sim Sta is selected and press Select
- Step 4 Use the UP and DOWN arrows to set the number of maximum stations that are simultaneously active. Depending on water source supply and power demand, you can set as many as 16 stations to be active at the same time.
- Step 5 Press Select when finished.

Display Adj

Date Mode: MMDDYY Date: 01/01/16 Fri Sat Address: 001 Max Sim Sta: 06 ▶Display Adj: darker Radio Settings

It is possible to adjust the contrast to the LCD screen if the clarity is poor.

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Display Adj is selected and press Select
- Step 4 Adjust the display contrast by using the UP arrow to increase and DOWN arrow to decrease.
- Step 5 Press Select when the desired display clarity is achieved.

Display Adj

Date Mode: MMDDYY Date: 01/01/16 Fri Sat Address: 001 Max Sim Sta: 06 ▶Display Adj: darker Radio Settings

It is possible to adjust the contrast to the LCD screen if the clarity is poor.

- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 Press DOWN until Display Adj is selected and press Select
- Step 4 Adjust the display contrast by using the UP arrow to increase and DOWN arrow to decrease.
- Step 5 Press Select when the desired display clarity is achieved.

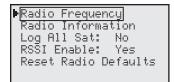
Radio Settings

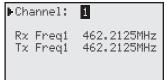
Radio Settings allows you to set the communication frequency OSMAC G3 radio. OSMAC G3 radio is preprogrammed with 6 radio frequencies that are commonly used in Toro irrigation systems. If the preprogrammed frequencies are not suitable for your use, you can edit any of the frequencies to your desired radio frequency.

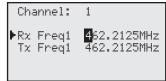
- Step 1 While at the Home display, press Select to access the controller menu.
- Step 2 Press DOWN until Settings is selected and press Select
- Step 3 While Radio Settings is selected and press Select

What's Running Manual Watering Scheduled Watering Communication Diagnostics ▶Settings Date Mode: MMDDYY Date: 01/01/16 Fri Sat Address: 001 Max Sim Sta: 06 Display Adj: ▶Radio Settings

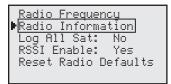
▶Radio Frequency Radio Information Log All Sat: No RSSI Enable: Yes Reset Radio Defaults Radio Frequency - Use this menu to select the radio frequency in order to be able to send a radio page command to the OSMAC G3 controller. Use the UP and DOWN arrows to select from the 6 preprogrammed frequencies. If the 6 preprogrammed frequencies are not suitable for your use, you can edit any of the frequency channels. Use the UP and DOWN arrows to select Rx (Receive) frequency, then press Select arrows to navigate between values. Press Select once the correct frequency value is set.

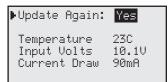






Radio Information - You can access the radio information when you select this menu. The radio Model, Firmware Version, Serial Number and the last RSSI information will be provided. To access the radio module temperature, input voltage and the current draw, press the DOWN arrow and select Get Other, then press Select of the latest values, press Select while at the Update Again menu. Select Yes to refresh the information.





Log All Sat - Used for troubleshooting at the direction of Toro support. Leave value at **No**.

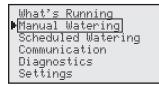
RSSI Enable - Used for troubleshooting at the direction of Toro support. Leave value at Yes.

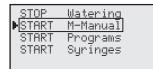
Reset Radio Defaults - Select Reset Radio Defaults and press Select when you want to reset all radio communication parameters. All radio parameters will revert back to factory defaults. All 6 frequencies will revert back to their default values. If a unique frequency was set for any of the six frequency numbers, that frequency will need to be entered and set again in order to be used.

Radio Frequency Radio Information Log All Sat: No RSSI Enable: Yes Reset Radio Defaults

Manual Watering

M-Manual - Manually start a station or stations manually and specify a runtime.





Manual : M-Manual Sta#: <mark>01</mark> -01 10 min Simult : 05 START

Step 1 – While at the Home display, press Select to access the controller menu.

Step 2 - Press DOWN until Manual Watering is selected and press Select

Step 3 – Press DOWN until START M-Manual is selected and press Select

Step 4 – Use the UP and DOWN arrows to select the station you want to activate, then use the LEFT and RIGHT arrows to navigate to the runtime. Use the UP and DOWN arrows to set the desired runtime for that station.

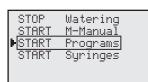
If sequential stations will be running the same amount of runtimes, you can easily accomplish this by setting the first station in the sequence followed by the last station in the sequence and setting the runtimes that each station will run.

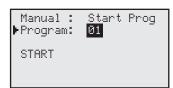
Step 5 - Repeat Step 4 for additional station or group of stations.

Step 6 – Once all the stations you want to activate are set, press **DOWN** until **START** is selected and press **Select** to activate.

Programs - Manually start a scheduled program before the set start time.

What's Running
Manual Watering
Scheduled Watering
Communication
Diagnostics
Settings





Step 1 – While at the Home display, press Select to access the controller menu.

Step 2 - Press DOWN until Manual Watering is selected and press Select

Step 3 - Press DOWN until START Programs is selected and press Select

Step 4 – Use the UP and DOWN arrows to select the scheduled program number you want to activate and press Select

Step 5 - Press DOWN until START is selected and press Select to activate.

Syringe - Manually start a scheduled program before the set start time with a different runtime.

What's Running
Manual Watering
Scheduled Watering
Communication
Diagnostics
Settings

STOP Watering START M-Manual START Programs ►START Syringes Manual : Suringe ▶Runtime: <mark>81</mark> min Program: 01 START

Step 1 - While at the Home display, press Select to access the controller menu.

Step 2 - Press DOWN until Manual Watering is selected and press Select

Step 3 – Press DOWN until START Syringes is selected and press Select

Step 4 – Press DOWN until Runtime is selected and press Select . Use the UP and DOWN arrows to set the runtime duration and press Select .

Step 5 – Press DOWN until Program is selected and press Select . Use the UP and DOWN arrows to select the scheduled program number you want to syringe and press Select .

Note: Only stations that are set in the selected scheduled program will activate.

Step 6 - Press DOWN until START is selected and press Select to activate.

Communication

What's Running
Manual Watering
Scheduled Watering
Communication
Diagnostics
Settings

Page Monitor Sig∎ Page History Radio Menu Sat Address: 001 Comm Mode: Central Receive Only Radio

Page Monitor - This menu is for troubleshooting and diagnostic servicing purposes only. It is used to monitor real time radio page commands.

Page History - Select this menu to review all received radio page commands.

Radio Menu - This menu is a duplicate of the Radio Settings inside the Settings Menu. See **Radio Settings** on page 12.

Sat Address - Select this menu to set/edit the Satellite's address. Satellite address is the identification that is given to a particular satellite. In order to communicate with individual satellites, each satellite is given a unique satellite address. When a page is sent to that satellite address, only the intended satellite will respond and the other satellites will ignore the page command.

Step 1 - While at the Home display, press Select to access the controller menu.

Step 2 - Press DOWN until Communication is selected and press Select

Step 3 - Press DOWN until Sat Address is selected and press Select

Step 4 – Use the UP and DOWN arrows to select the satellite address you want to set.

Step 5 - Press Select to finalize.

Comm Mode - Select this menu to edit the OSMAC G3 controller's communication mode.

Central Mode – When placed in Central mode, the OSMAC G3 satellite will wait and execute radio commands sent by the central. The satellite will ignore all scheduled watering but will execute manual watering.

Local Mode – When placed in Local mode, the OSMAC G3 will execute scheduled watering as well as manual watering. Radio commands will be ignored.

Off Mode – When placed in Off mode, the OSMAC G3 will not execute any watering operation whether it is scheduled or manually initiated. Any watering operation will terminate once the satellite is placed in Off mode. Watering operations will resume once the satellite is placed back to Central or Local mode.

Step 1 - While at the Home display, press Select to access the controller menu.

Step 2 - Press DOWN until Settings is selected and press Select

Step 3 – Press DOWN until Comm Mode is selected and press Select

Step 4 – Use the UP and DOWN arrows to select between Central, Local and Off modes.

Step 5 - Press Select when the proper mode of operation is set.

What's Running

Select this menu item to monitor the current watering activity of the OSMAC G3 controller.

Diagnostics

▶Menu: Revision
Revision: 1.00
Rev Date: 4/21/16

▶Menu: <mark>Station Test</mark> Sta: Pump Press Dto start ▶Menu: Event Codes Clear log: No Last code: 02, 002 01/02/16, 17:34:08

▶Menu: <mark>Seq Stations</mark> On each for: 1 sec Press ▶to start ▶Menu: VA Monitor

RDV: 3.3 BV: 3.2
17V: 18.1 9V: 10.0

LCD: 31 C RSSV: 0.7

▶Menu: Power Detect
Defaults Set
Detect: 64sta, 00sen
PD 01/07/16 08:00:00
PU 01/01/16 12:00:01
Slot 1 card: Output

Revision – Displays the firmware's version number and date it was created.

Event Codes – Displays diagnostic codes that the OSMAC G3 controller encountered. The codes could help Toro troubleshoot your system. Clear the codes by navigating to **Clear log**, select **Yes** and press **Select**.

VA Monitor – Displays the real time values of the following:

RDV - Radio Voltage BV - Battery Voltage 17V - 17-volt Terminals 9V - 9-volt Terminals LCD - LCD Voltage RSSV - Signal Strength

Station Test – Utilize this function to test any of the OSMAC G3 controller outputs. You can activate the pump and any stations by selecting Sta and press Select . Use the UP and DOWN arrows to select the output terminal you want to test and press the RIGHT arrow to activate. The station will remain activated until you press the LEFT arrow to turn off. While a station is active, you may test other stations by editing Sta value.

Seq Stations – Utilize this function to test all of the OSMAC G3 stations. To activate, navigate to On each for and press Select . Use the UP and DOWN arrows to set the amount of time for each of the stations to run, then press the RIGHT arrow to activate. OSMAC G3 controller will continually sequence the stations until the LEFT arrow is pressed to cancel.

Specifications

Line Voltage: 115-120 or 230-240 V a.c. 50/60 Hz (switchable), 130 VA

Current Draw (no load): 0.21A @ 115-120 V a.c., 60 Hz or 0.10A @ 230-240 V a.c., 50 Hz

Current Draw (maximum load): 0.91A @ 115-120 V a.c., 60 Hz or 0.45A @ 230-240 V a.c., 50 Hz

Secondary Voltage Output: 24 V a.c., 50/60 Hz, 3.0A (85 VA)

Maximum Load Per Station Output: 0.75A (18 VA)

Maximum Load Per Pump/Master Valve Output: 1A (24 VA)

Operating Temperature: -10°C to +60°C (14°F to 140°F)

Storage Temperature: -30°C to +65°C (-22°F to 149°F)

Power Supply:

1.5A On/Off Switch/Circuit Breaker - Main Power Input

3.2A Fuse – Power Supply (Slow Blow)

4.0A Circuit Breaker - Control Functions

Control Modules:

Pump – 1.0A Fuse (Fast Blow, Automotive Type) Station Output – 3.0A Fuse (Fast Blow, Automotive Type)

Electromagnetic Compatibility

Domestic: This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a FCC Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the irrigation controller with respect to the receiver.
- Move the irrigation controller away from the receiver.
- Plug the irrigation controller into a different outlet so that the irrigation controller and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-000-00345-4.

International: This is a CISPR 22 Class B product