WGLDesigns Rain8net Irrigation Interface

www.mydevice.com.au

This driver provides 2-way feedback and control for WGL Designs' Rain8net and Rain8net Pro irrigation controller.

Note:

Please report any bugs found to bugs@mydevice.com.au. Include driver version number and steps to reproduce the issue where possible.

Contents

Driver Configuration Settings:

Serial Settings

Serial Port - The port the master Rain8net is connected to.

There are two ways to use multiple Rain8net module:

1) Connect the first module to the XP-8 via the RS232 port. Then daisy chain other Rain8net modules via the RJ12 socket as per the manual. This method allows for a maximum of 3 modules to be linked (24 zones).

2) Connect each Rain8net directly to a XP-8 RS232 port. To do this you must load an instance of the driver for each port in use.

Functions

Zone On

This switches on a zone.
Module Address - The id of the module to command.
Zone - The output to turn on.

Zone Off

This switches off a zone.
Module Address - The id of the module to command.
Zone - The output to turn off.

All Off

This switches all zones for a module off.
Module Address - The id of the module to turn off.

All Off (Global)

This switches off all zones for all modules.
As the modules do not respond in this case you must issue a Request Status call to get updated information.

Request Status

This requests the status of a module. It indicates whether zones 1-8 are on or off.
Module Address - The id of the module to turn off.

Functions (Pro Model Only)

Read Rain Switch Status

This obtains the current status of the rain switch. You can use this to determine if watering should be carried out.

Module Address - The id of the module to command.

Read Flow Meter Counter

This obtains the current value of the flow meter (if fitted).

Module Address - The id of the module to command.

Clear Flow Meter Counter

This obtains resets the flow meter counter back to zero.

Module Address - The id of the module to command.

Variables

Rain8net (1 - 3)

Zone 1 - 8
These are Boolean values. A value of "true" indicates the zone is on, a value of "false" indicates it is off.

Last Zone Accessed
This indicates the last zone that was sent a command. Useful for providing a list of strings to show which zone is active. Values: 0 - 8. A value of zero indicates all outputs are off.

Rain8net Pro

Rain Switch Status
This Boolean value indicates the status of the rain switch on the pro model. True indicates the switch is closed.

Flow Meter Counter
This is an integer value indicating the quantity of water that has been delivered if the optional flow meter is connected to the pro model.

All functions except "All Off (Global)" update these variables immediately.

Examples

Controlling a zone (with feedback)

In this example we'll show you how to make a button that toggles a zone on/off and provides visual feedback.

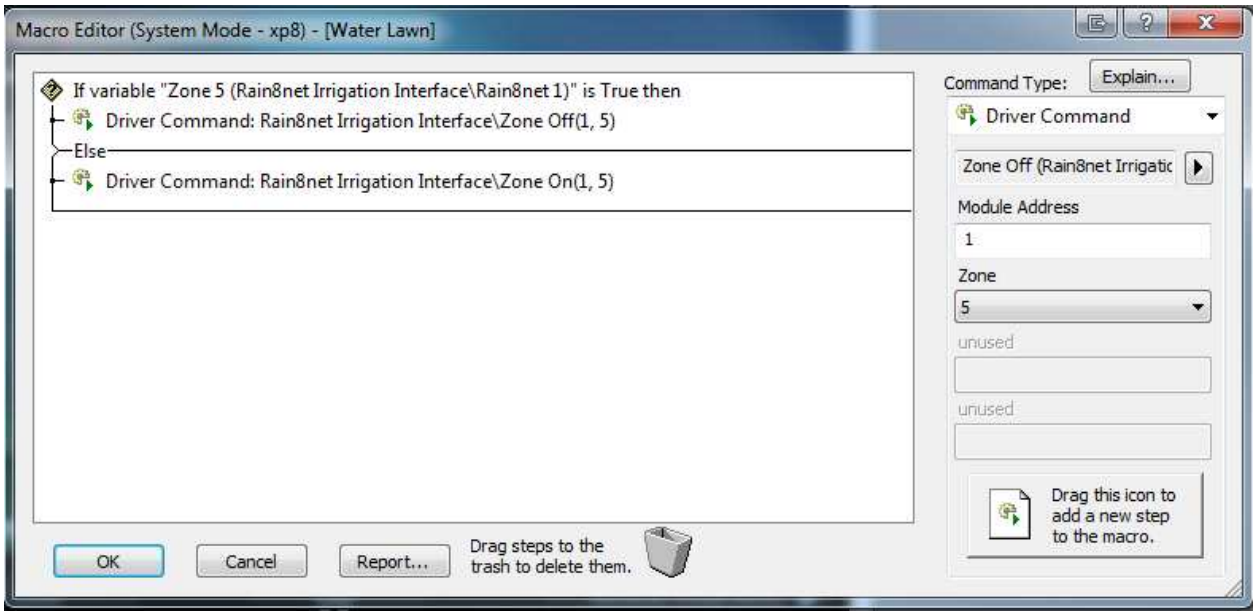
Start by adding a button and giving it a descriptive name.

Now right click and create a macro. We want to cycle between on and off so we test the current state of the zone. In this example we'll toggle zone 5.

Select the command type: System Variable Test and set the variable to Rain8net Irrigation Interface -> Rain8net1 -> Zone 5.

Now drag the object into the script editor.

Now add a Driver Command to turn the zone 5 on and off.

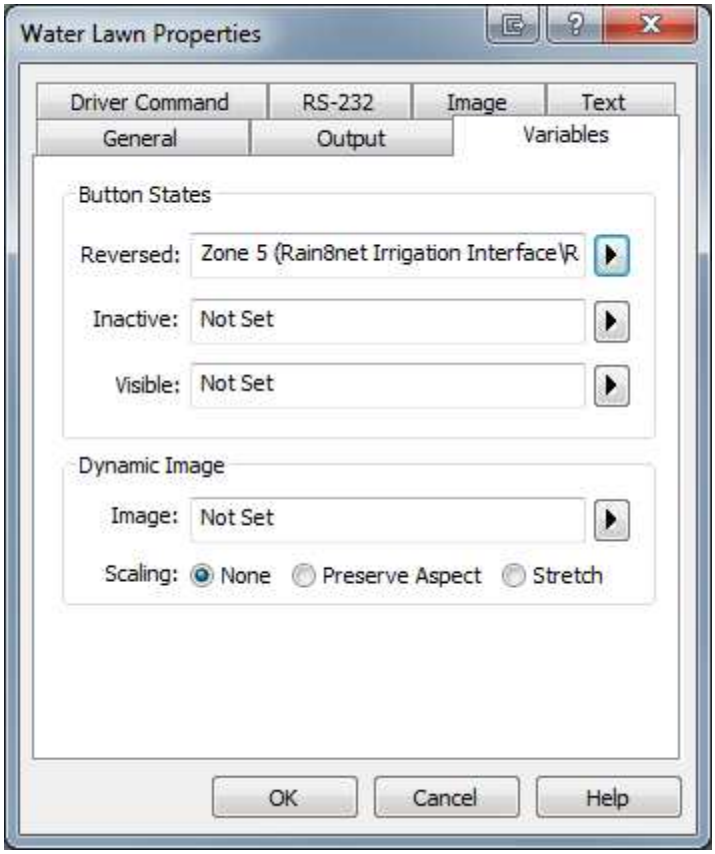


Note how if Zone 5 is off we switch it on and if it's on we switch it off. Click OK.

That's taken care of the toggle function, now let's add reverse state feedback.

Right click on your button and select Edit Properties...

Go to the Variables tab and set the Reversed button state to Rain8net Irrigation Interface -> Rain8net1 -> Zone 5 and click OK.



We're done, now the button will show when the zone is on.

Contact Details:

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