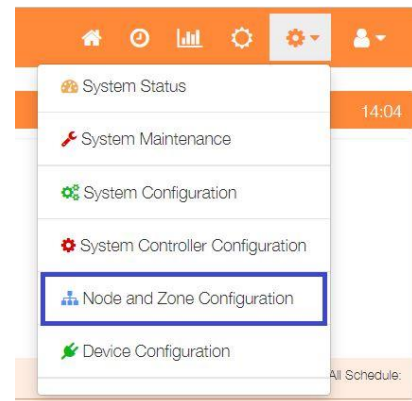
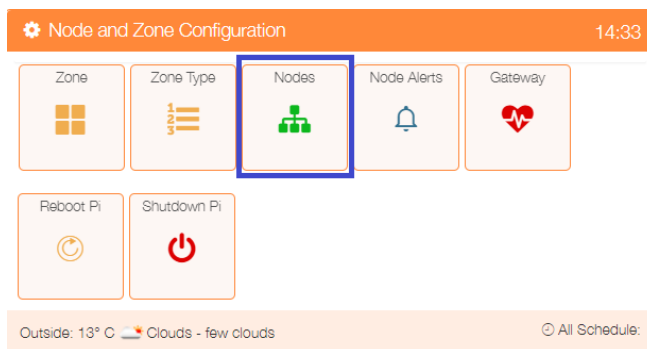


MaxAir Technical – Creating Relay Devices

Relays are created as control devices; they need to be attached to nodes using a 'node_id' and 'child_id'. The nodes can be of any type, e.g., 'MySensors Controllers', 'i2C Controllers' or 'GPIO Controllers'.

Identify the Node_ID and Child_ID










To show the nodes currently available select Node and Zone Configuration from the Settings dropdown list, then click the 'Nodes' button.



The listing shows a number of Sensor nodes and a GPIO Controller Node. For this example, three relay devices will be attached to the GPIO Controller Node.

Node Setting

You can Add GPIO, i2C relay board as Node, Wireless Nodes are automatically discovered. Nodes attached to any Zone cannot be deleted until detached from the associated Zone.

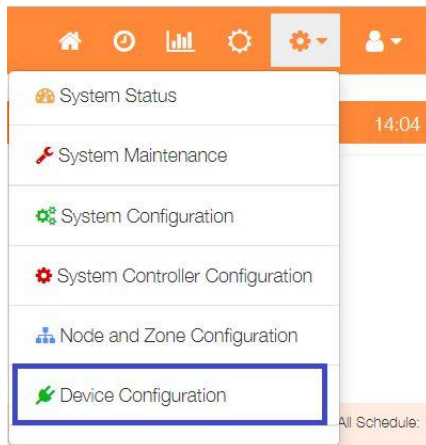
Type	Node ID	Max Number of Child IDs	Name	
MySensor	21	1	Temperature Sensor	
MySensor	30	1	Temperature Sensor	
MySensor	27	0	Temperature Sensor	
MySensor	25	0	Temperature Sensor	
GPIO	0	0	GPIO Controller	
Tasmota	110	55	Tasmota Controller	
Tasmota	120	50	Tasmota Controller	
Dummy	100	3	Dummy Sensor	
MySensor	70	1	Humidity Sensor	

Close

Add Node

In order to use the GPIO Controller, we need to know something about the hardware in use. Available GPIO pins will depend on the controller being used. For example, if we are using a Raspberry Pi Model 3B+ the pins 11, 13 and 15 (corresponding to GPIO17, GPIO27 and GPIO22) should be available, if not being used by another application.

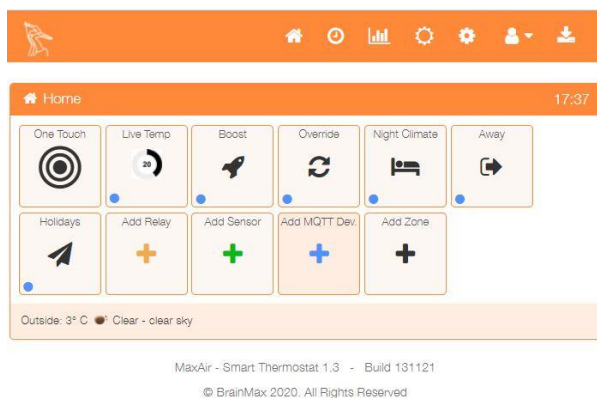
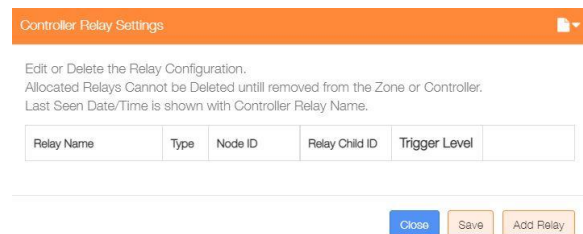
The GPIO controller is node_id of 0, we will use child_ids of 11, 13 and 15 for our three relays.



Select Device Configuration from the Settings dropdown list, then click the 'Relays' button to display a list of any currently configured relays.



Click on the 'Add Relay' button to configure the first relay



An alternative method to go directly to the Add Relay dialogue, is from the Home screen click on the 'One Touch' button then select the 'Add Relay' menu item.

Select the Controller Type e.g. Boiler

Provide a name for this relay device

Select the Relay ID from the dropdown list of available Nodes

Choose the Child ID from the dropdown list, in the case of a GPIO controller, this will be a board pin eg pin 11 (GPIO17).

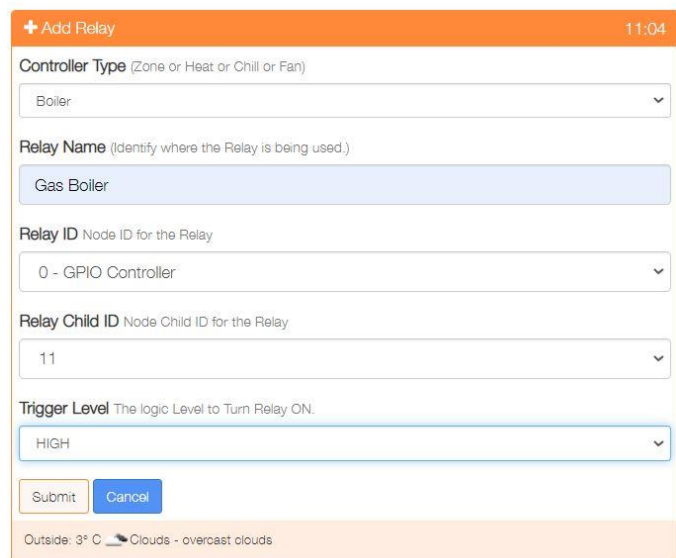
Select HIGH or LOW trigger level for relay ON.

Click on 'Submit' to add the device.

Repeat the process for the other relays.

Entries will be created in the 'messages_out' queue for each relay only when they are attached to a zone or the system controller, their state can then be set.

Reselect the Relays menu item from the Settings/Node and Zone Configuration menu to display the updated list of newly configured relays.







Controller Relay Settings

Edit or Delete the Relay Configuration.

Allocated Relays Cannot be Deleted until removed from the Zone or Controller.

Last Seen Date/Time is shown with Controller Relay Name.

Relay Name	Type	Node ID	Relay Child ID	Trigger Level	
Hot Water (2021-11-23 13:43:24)	Zone	0	11	HIGH	 
Central Heating (2021-11-23 13:43:24)	Zone	0	13	HIGH	 
Gas Boiler (2021-11-23 13:43:24)	Boiler	0	15	HIGH	 

Close

Add Relay

From this menu the relay configurations can be edited and deleted.

Note: relays can only be deleted when they are NOT currently allocated to either a zone or the system controller. The act of un-allocating a relay will remove the corresponding entry in the 'messages_out' table.