

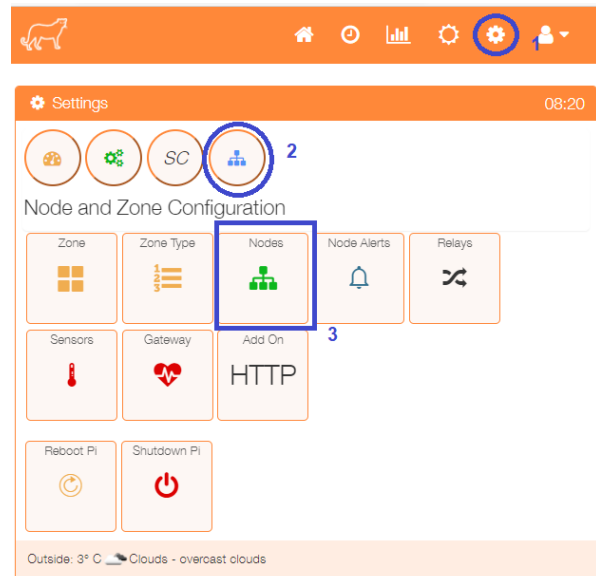
MaxAir Technical – Creating Relay Devices

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 the Nodes menu item from the Settings/Node and Zone Configuration menu.

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. 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.

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

Edit or Delete the Relay Configuration.
Allocated Relays Cannot be Deleted untill removed from the Zone or Controller.
Last Seen Date/Time is shown with Controller Relay Name.

Relay Name	Type	Node ID	Relay Child ID
------------	------	---------	----------------

Close Save Add Relay

Entries will be created in the 'messages_out' queue for each relay so that the state of these relays can be set.

+

Add Relay

09:34

Controller Type (Zone or Heat or Chill or Fan)

Boiler

Relay Name (Identify where the Relay is being used.)

Gas Boiler

Relay ID Node ID for the Relay


0 - GPIO Controller

Relay Child ID

11

Submit

Cancel

Outside: 3° C  Clouds - overcast clouds







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	
Hot Water (2021-03-04 21:28:26)	Zone	0	11	 
Central Heating (2021-03-04 21:28:26)	Zone	0	13	 
Gas Boiler (2021-03-04 21:28:26)	Boiler	0	15	 

Close

Save

Add Relay

From this menu the relay configurations can be edited and deleted (if not allocated to a zone).