

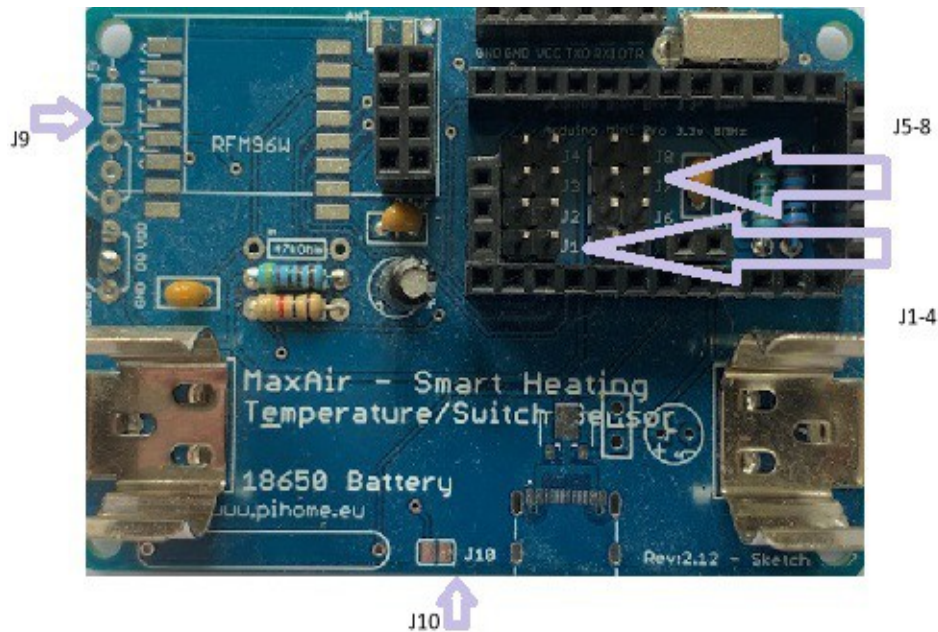
MaxAir Technical – Sensor and Relay Boards with Jumpers

Introduction

MaxAir PCBs are available for both Sensors and Relay Controllers, these PCBs have jumper pins available for configuration of the 'Node ID' and other parameters.

Sensor Ver 2.12

Sensor PCB Ver 2.12 has a total of 10 Jumpers, labelled J1 to J10.



Jumpers J1 to J4 are used to set the Node ID value, where J1 and J2 are used in combination to set the tens part of the Node ID and jumpers J3 and J4 the units part.

Jumpers J1 and J2		Jumpers J3 and J4	
Jumpers	Node ID	Jumpers	Node ID
None	2x	None	x0
J1	3x	J3	x1
J2	4x	J4	X2
J1 and J2	5x	J3 and J4	x3

Hence no jumpers installed will result in a Node ID of 20 and all jumpers installed will result in a Node ID of 53.

Jumpers J5 to J8 usage:

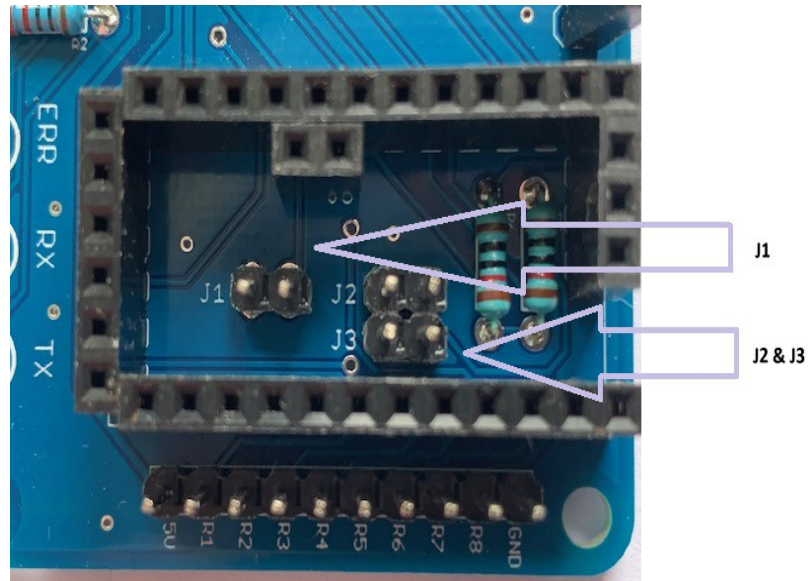
Jumper	Usage
J5	COMPARE_TEMP (No Jumper = 1, Jumper = 0, Jumpers ignored if myCompareTemp not initialised to 0 in sketch).
J6	COMPARE_BVOLT (No Jumper = 0, Jumper = 1, Jumpers ignored if myCompareBvolt not initialised to 0 in sketch)
J7	Used to set the NRF24L01 radio Channel (No Jumper = 91, Jumper = 74).
J8	NOT USED

There are also two solder jumper pads, J9 and J10, usage is:

Jumper	Usage
J9	MAX_ATTACHED_DS18B20 (No Jumper = 1, Jumper = 2)
J10	ENABLE REED SWITCH (No Jumper = disabled)

Relay Controller Ver 1.0

The relay controller PCB has a total of three jumpers, labelled J1, J2 and J3.



Jumper J1 is used to select the relay ON trigger state eg. if the relay requires a LOW logic level to turn ON then a jumper should be placed across the J1 pins. Jumpers J2 and J3 are used to select the Node ID, usage is:

Jumpers J1	Jumpers J2 and J3	
Used to select the relay trigger level. Jumper – Negative Trigger NO Jumper – Positive Trigger	Jumpers	Node ID
	None	100
	J2	101
	J3	102
	J3 and J4	103

NRF24L01 Radio Channel Selection

The Relay Controller default NRF24L01 Radio Channel is 96, to select the alternate channel of 74, place a jumper between the RX and GND pins of the 6pin programming port header e.g.

