



Installation:

230v Input should be protected with an adequate fuse.

All relay outputs are N,O and should not exceed 4A.

All inputs are fed from 12v output to activate.

Input & Output Definition:

12v Common For Inputs

Input 1: Heat Zone 1

Input 2: Heat Zone 2

Input 3: Heat Zone 3

Input 4: Remote reverse on/off switch

Input T1: Pipe temp sensor input (Red:5v Yellow:T1 Black:GND)

Input T2: Not used

0-10v : Output for heating valve (A 12v relay can be power using this output)

Relay 1 Output: Heat Zone 1 Forward

Relay 2 Output: Heat Zone 1 Reverse

Relay 3 Output: Heat Zone 2 Forward

Relay 4 Output: Heat Zone 2 Reverse

Relay 5 Output: Heat Zone 3 Forward

Relay 6 Output: Heat Zone 3 Reverse

Tx Output: Low pipe temp, outputs 5V (max 40mA) when temp is less than the set.

Rx Output: Not used

Operation:

When inputs are high the forward relay & valve will be high.

When inputs are low the forward relay will go low, and then a delay for 30s before reverse relay will become high for 10s, then a delay for 30s.

The reverse can be turned off using the toggle switch on the PCB or using a remote switch.

On power up pushing and holding the up and down button will alter the reverse switch to a fixed reverse, when on a delay of 30s and all reverse output will be high until the reverse switch is turned off.

The valve will stay high (10v) for 30mins after the last input has gone low.