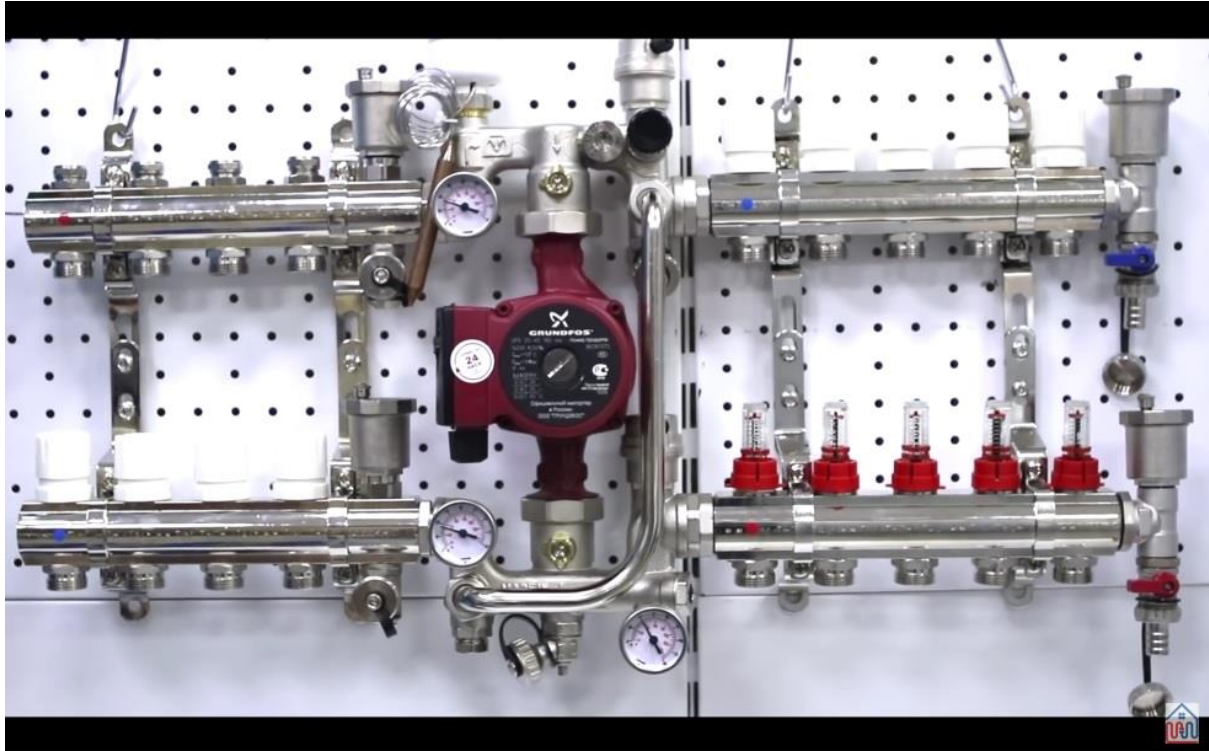


# Creating Pump Type Relays

## Introduction

Pump type relays are used where zones require the use of an external pump, for example where a pump is attached to a manifold:



The difference between a pump relay and a zone relay is that; the pump relay can be attached to multiple zones as a second controller and will switch ON if any of the zones, to which it is associated, are themselves in the ON state and will only switch OFF when all the associated zones are in the OFF state.

## Adding a Pump Relay

09:11

Controller Type (Zone or Boiler or Pump or Heat or Chill or Fan)

Pump

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

External Pump 1

Relay ID (Node ID for the Relay)

0 - GPIO Controller

Relay Child ID (Node Child ID for the Relay)

3

Trigger Level (The logic Level to Turn Relay ON.)

HIGH

Submit

Cancel

Outside: -1° C Mist - mist

Pump relays are created either from One Touch/Add Relays or from Settings/Node and Zone Configuration/Relays Add Relays. When creating select 'Pump' as the Controller Type.

## Associating the Pump Relay with a Zone

To associate a Pump Relay with a Zone, simply add it as a second Zone Controller.

**Edit Zone: Downstairs** 09:49

☒ **Enable Zone** Enable this Zone if you want this Zone to be controlled.

**Index Number** In the List of Zones where you want to place this Zone on the home screen:  
1

**Zone Name** Zone display name:  
Downstairs

**Zone Type** Zone type (i.e. Heating, Hot Water or Electrical Immersion):  
Heating

**Default Temperature** Default temperature this Zone, used when no scheduled temperature is active:  
16

**Maximum Temperature** Maximum temperature this Zone can reach before Zone heating will shut-off for safety:  
21

**Maximum Operation Time** Maximum operation time in minutes of any continuous time:  
60

**Hysteresis Time** Minimum delay between Zone off and on:  
3

**Setpoint Deadband** Check link for [Deadband](#):  
0.5

**Temperature Sensor** Node ID for the Sensor:  
Downstairs

**Zone Controller ID** Select Zone Controller Type and Number:  
Downstairs

**Zone Controller ID** Select Zone Controller Type and Number:  
Pump

**Boost Button ID** Boost console if you have any:  
0

**Boost Button's Child ID** Boost button number if you have any:  
0

**System Controller**:  
48-Boiler Controller Relay Node ID: 27

Outside: -1° C Mist - mist

## Multiple Pump Relays

The system supports the use of multiple Pump Relays, for example Pump Relay 1 could be created and associated with Zone 1 and Zone 2 and Pump Relay 2 could be created and associated with Zone 3 and Zone 4.

## Overrun

The Pump relay is associated to the Zone relay and hence if a Zone relay is in the overrun condition then the associated Pump relay will also be in the overrun state.