#### 5 Thermostat Functions

## NSB (Night SetBack) Function

NSB Mode depends on the NSB wired connection.

0V = NSB OFF 230V= NSB ON

The NSB signal is activated every 1 second. When the signal is received the setpoint temperature will be set at  $\pm 2^{\circ}$ C or  $\pm 4^{\circ}$ C.

## Heating and Cooling Selection

The Heating/Cooling function is determined by the CO terminal connection.

CO 0V= Heat mode CO 230V= Cool mode

### Cooling Blocked function

Cooling Enabled:

Set the jumper on ON OOO. The thermostat will run in normal cooling mode. That means that it will open/close the actuators when necessary. The LED will be BLUE when the cooling function is running.

Cooling Disabled:

Set the jumper on OFF OOO . The actuator will be closed and the LED will

## 8. Technical Specification

Model:	22-23001		
Voltage:	230 V AC, +-10%, 50/60 Hz		
Operating Performance:	230 V: 1,8 W		
Temperature setback:	2°C-4°C		
Temperature range:	5°C- 30°C		
Span:	+/- 0,5°C		
Storage temperature:	-20°C to +60°C		
Ambient temperature:	0 °C up to 45 °C		
Degree of protection:	IP 30		
CE conformity according to:	Class II ( EN60730 )		
Housing material:	PC, V2		
Color:	RAL 9010 pure white		
Connection:	Screw terminal		
Weight	90g net / 135g gross		
Puls-wide-modulation: (PWM)	Yes		
Valve protection:	Yes		
Heating and Cooling:	Yes, automatically Change Over on the CO terminal		
Cooling blocked:	Yes, with jumper		
Dimensions:	85mm*85mm*25mm		

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## 6. Protection Function

## Heat cut off at high/low temperature:

When room temperature is over 36°C or under 4°C, all heating/cooling outputs will be turned off.

#### Short cycle protection:

When Cooling Mode is enabled the minimum interval between Relay ON/OFF is 3 minutes.

#### Valve Protection:

Set the jumper on 'ON' to disable the function or on 'OFF' to enable it. Turn on the valve for 5 minutes every week to prevent any damage to the valve.

#### Sensor Malfunction:

If the temperature sensor or temperature sensor compensation is open the LED will flash BLUE/RED alternatively.

## 7. Control Patterns

If CO terminal is connected and the Heating Mode is ON, the PWM function will be activated.

If CO terminal is disconnected and the Cooling Mode is ON the ON/OFF control output will be activated.

## Warranty

Multipipe warrants that this product (22-23001) will be free from any defect in materials or workmanship, and shall perform in accordance with its specification, for a period of five years from the date of installation. Multipipe sole liability for breach of this warranty will be (at its option) to repair or replace the defective product.

Customer Name:
Customer Address:
Post Code:
Tel No:Email:
Engineers Company:
Tel No: Email:
Instalation Date:
Engineers Name:
Engineers Signature:

# MULTIPIPE

DIAL 230 V THERMOSTAT

Model: 22-23001



**INSTALLER MANUAL** 

## Contents of the box

#### Icons used in this manual:



Safety



Important info



Your benefit

#### Manual Contents:

Box Contents Introduction Product Compliance and Safety Information Installation User Interface Status/LED indication Installers notes Warranty



Thermostat



1 x Installer Manual

#### **Product Description**

Thank you for purchasing the Multipipe 22-23001 Thermostat. This thermostat is a device that lets you customise the heating and cooling of your home as needed.

The 22-23001 is an electronic room temperature controller which offers key advantages over conventional mechanical products.

The controller is easy to operate using the conventional backlit adjusting dial and offers you unique control convenience for heating applications of all types thanks to the high quality device electronics. We hope you enjoy our product.

## 1. Mounting the Thermostat

Install the 22-23001 dial room thermostat at roughly 1.5m above floor level. It should be mounted in a location where the thermostat is easily accessible and away from direct sunlight.





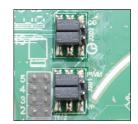
Gently remove front housing and make the wiring connections.





For wall mounting, mark the correct possition on the wall and mount the rear case to the wall.

## 3. Switching Bridges





Different features of the 22-23001 can be switched On or OFF with the jumpers. In order to do this please follow the table below.

22-23001 Switching Bridges				
Switch	Feature	ON	OFF	
VP	Valve protection feature	000	000	
PWM	Pulse-Width-Modulation	000	000	
()	NSB Function (2° or 4°)	2°C	4°C ○ ○ ○	
CO	Heating/Cooling	Enable O O O	Disable O O O	

## Product Compliance & Safety Information



Multipipe hereby declares that the product complies with the essential requirements of the following EC Directives: 2014/30/EU, 2014/35/EU and 2011/65/EU.



Use in compliance with safety regulations. The unit is to be used for the control of room temperature inside the house.



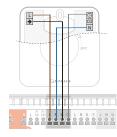
This accessory must be fitted by a competent person, and installation must comply with the guidance, standards and regulations applicable to the city, country or state where the product is installed. Failure to comply with the relevant standards could lead to prosecution.

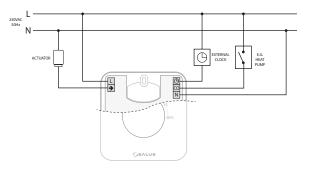
Note: All electrical installation work should be carried out by

## 2. Terminal Connection



Note: You can wire the thermostat directly to the 22-23013 Wiring Center (purchased separately).





The jumpers from 1 to 5 are representing the number of actuators that you can connect to the thermostat.

After the actuators are mounted please move the jumper on the correct number (the same as the number of actuators).

Depending on the amount of actuator used, please change the jumper position accordingly to compensate the power consumption.

