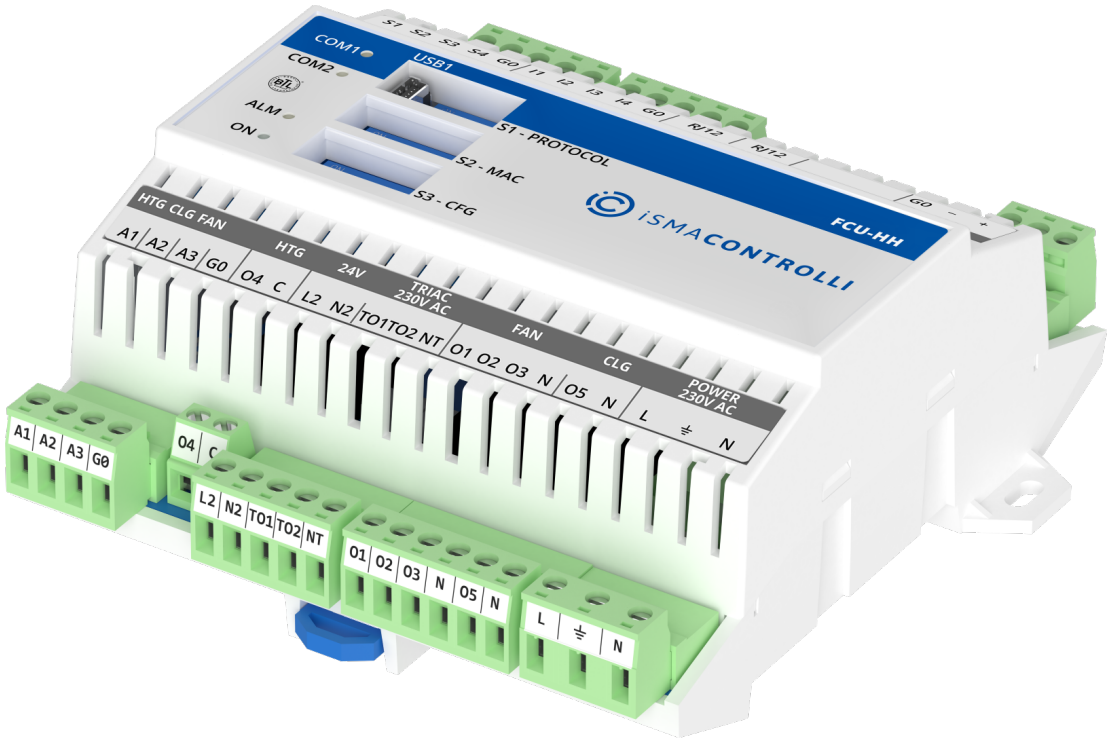
iSMACONTROLLI

# iSMA-B-FCU

User Manual

## Quick Start-up

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# Table of Contents

# 1 Introduction

This manual explains basic procedures for using the controller, setting up the built-in application and information on connection details. It is recommended to read this manual before using the controller. For detailed operating procedures and troubleshooting information, see user manuals: FCU Programming, FCU Application, FCU Hardware, FCU Updater.

## 1.1 Revision History

| Date | Rev. | Description |
|---|---|---|
| 30 Jan 2025 | 1.4 | Updated Control Point panel references |
| 19 Jul 2024 | 1.3 | Updated information about the default settings (I/O configuration cleared while restoring to default settings) |
| 21 Feb 2023 | 1.2 | • Updated information about the default settings (values stored in the EEPROM memory cleared while restoring to default settings)<br>• Updated FP panel references |
| 21 Apr 2022 | 1.1 | • Rebranded<br>• Updated Touch Point panel references |
| 5 Mar 2021 | 1.0 | First edition |

*Table 1. Revision history*

# 2 Overview

## 2.1 Box Contents

The iSMA-B-FCU controller comes in a box along with the connectors and the iSMA-B-FCU installation instruction.

## 2.2 Tools

To safely and properly set up the iSMA-B-FCU controller, the flat head screwdriver 3.0 x 0.5 mm is necessary.

## 2.3 Dimensions and Mounting

The controller dimensions and mounting details are presented on the figure 1. There are no additional requirements for controller's orientation and placement.

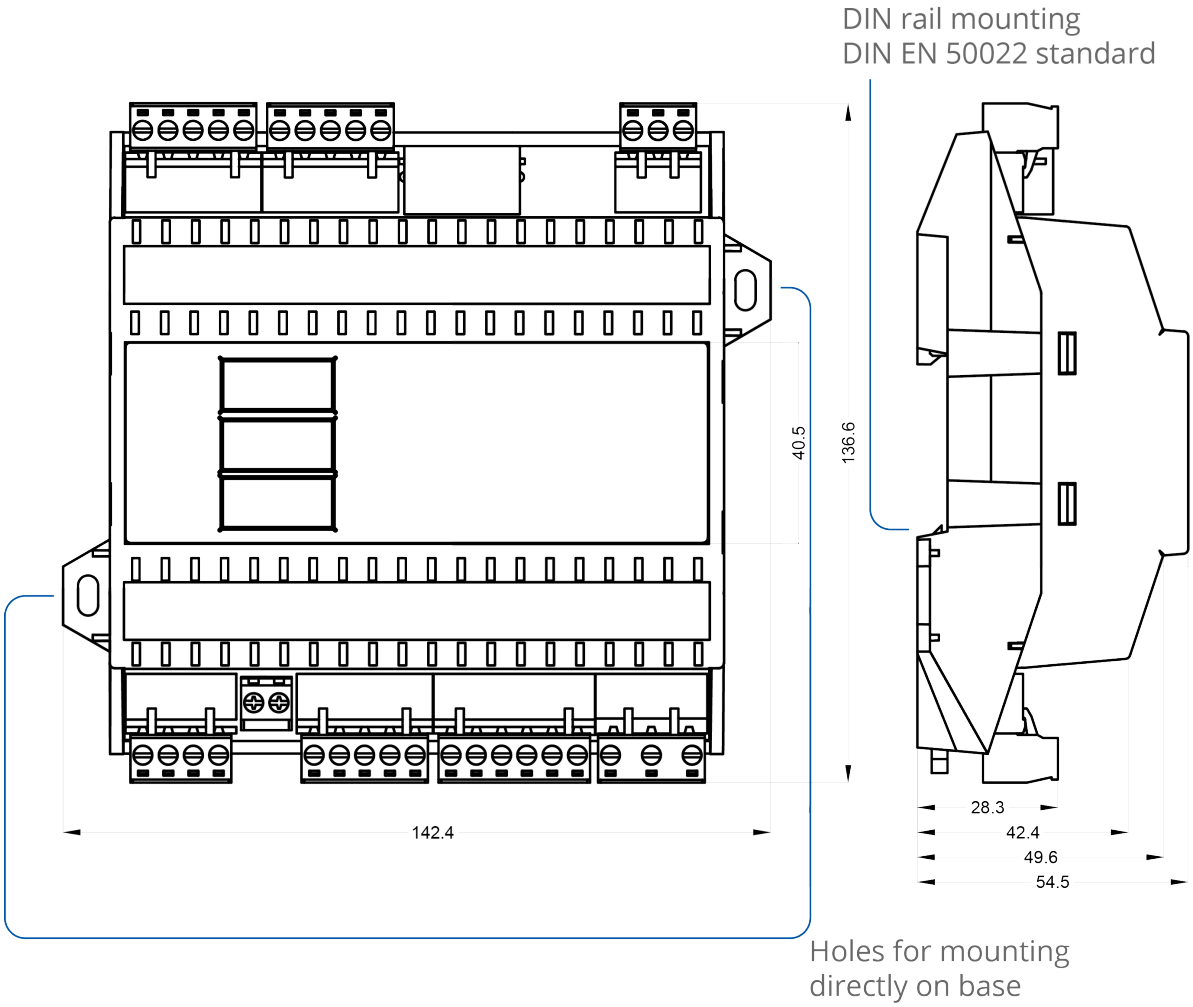



*Figure 1. FCU dimensions and mounting*

## 2.4 Technical Specification

For detailed technical specification, see the FCU Hardware manual.

# 3 Configuring and Connecting the Controller

## 3.1 Controller Overview

This section outlines the differences between the FCU hardware versions and describes steps required to properly configure the controller. For further information, please see the FCU Hardware manual.

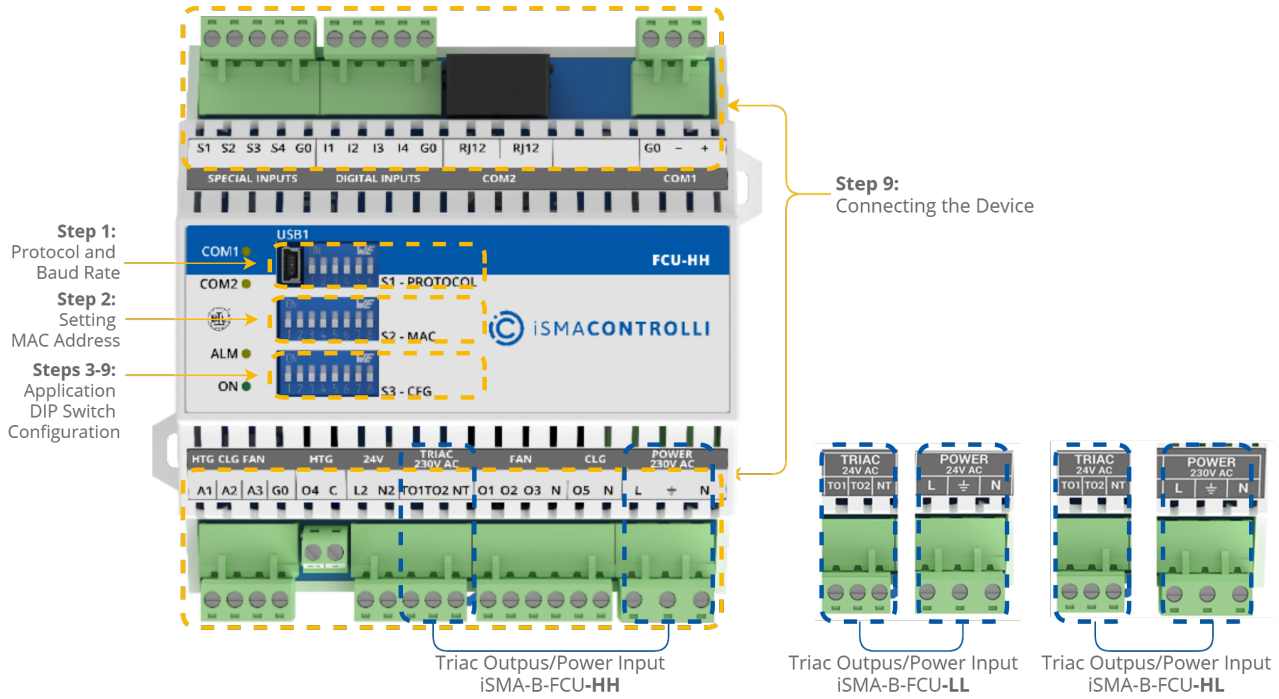



*Figure 2. FCU controller HH version; HL and LL versions with different power voltages*

The PROTOCOL DIP switch is responsible for configuring the communication protocol.

The MAC DIP switch is responsible for addressing the controller.

The CFG DIP switch is responsible for configuring the application.

Note: The detailed information about the DIP switches configuration is available in the FCU Hardware manual.

The iSMA-B-FCU controller configuration step by step is described in chapter 3 of this document and consists of steps:

- Step 1: Selecting Protocol and Baud Rate; Restoring the Default Settings
- Step 2: Setting Controller Address
- Step 3: Choosing the FCU Pipe Type
- Step 4: Switching Between 1 Heating Stage and 2 Heating Stages Modes
- Step 5: Switching Between 1 Cooling Stage and 2 Cooling Stages Modes
- Step 6: Selecting Type of Control Required by the FCU Valves and Connection Details
- Step 7: Selecting the Temperature Control Value Source and its Connection Details
- Step 8: Selecting Type of Fan Used Within the Project and its Connection Details

Steps 3-8 describe configuration of the CFG DIP switch. Their overview with default positioning is presented in the table below.

| No. | Name | On | Off | Default |
|---|---|---|---|---|
| 1 | Pipe Mode | 2-pipe | 4-pipe | 4-pipe |
| 2 | Heating 2nd Stage | Enable | Disable | Disable |
| 3 | Cooling 2nd Stage | Enable | Disable | Disable |
| 4 | Heating/cooling control mode | Analog | Digital | Digital |

*Table 2. The CFG DIP switch configuration*

**WARNING!**

Before attempting to configure the controller, make sure to have acquainted with all the required documentation, or have a good knowledge of the fan coil unit application–this will make configuration of the controller easy-going and trouble-free.

## 3.2 Step 1: Selecting Protocol and Baud Rate; Restoring the Default Settings

### 3.2.1 PROTOCOL DIP Switch Configuration

Depending on the communication protocol, used within the network the controller is connected to, there is a possibility to switch the protocol used by the controller so it matches the network protocol.

The protocol, which the controller operates with, and baud rate selection is made with the PROTOCOL DIP switch.

The 1st, 2nd, and 3rd switches are responsible for baud rate, while the 4th and 5th are responsible for the protocol. The 6th switch is responsible for restoring the default settings.

The PROTOCOL DIP switch settings for baud rate and protocol selection are shown in tables below.

| 1 | 2 | 3 | Baud Rate |
|---|---|---|---|
| OFF (0) | OFF (0) | OFF (0) | Defined by user |
| OFF (0) | OFF (0) | ON (1) | 76800 |
| OFF (0) | ON (1) | OFF (0) | 4800 |
| OFF (0) | ON (1) | ON (1) | 9600 |
| ON (1) | OFF (0) | OFF (0) | 19200 |
| ON (1) | OFF (0) | ON (1) | 38400 |

| 1 | 2 | 3 | Baud Rate |
|---|---|---|---|
| ON (1) | ON (1) | OFF (0) | 57600 |
| ON (1) | ON (1) | ON (1) | 115200 |

*Table 3. Baud rate configuration*

| 4 | 5 | Protocol |
|---|---|---|
| OFF (0) | OFF (0) | Modbus RTU |
| OFF (0) | ON (1) | Modbus ASCII |
| ON (1) | OFF (0) | BACnet Master |
| ON (1) | ON (1) | BACnet Slave |

*Table 4. Protocol configuration*

### 3.2.2 Restoring Default Settings

To restore the default iSMA-B-FCU device settings, follow the steps below:

- Turn off the power supply.
- Set the 6$^{th}$ switch of the PROTOCOL DIP switch to ON.
- Turn on the power supply, wait until the power LED is blinking.
- Set the 6$^{th}$ switch to OFF to restore the default settings. To cancel the reset, turn off the power supply and set the 6$^{th}$ switch to the OFF position.

Out of the box device, as well as after restoring default values procedure, has the default settings as shown in the table below. All parameters can be changed using the iSMA Tool software with the controller connected, only the baud rate and used protocol can be modified with DIP switches.

| Name | Default Value |
|---|---|
| User baud rate | 76800 |
| Stop bits | 1 |
| Data bits | 8 |
| Parity bit | 0 |
| Response delay | 0 |
| I1-I4 digital input counters | 0 |
| Values stored in the EEPROM memory | Cleared |
| I/O configuration | Cleared |

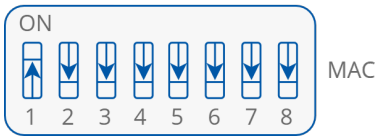
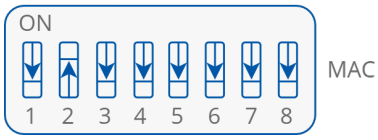
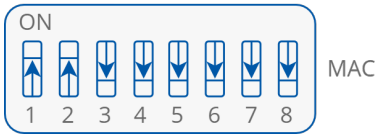
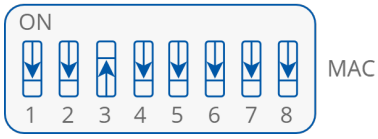
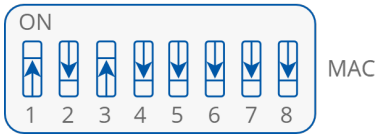
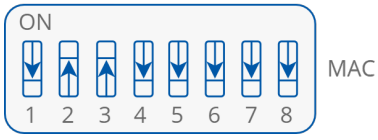
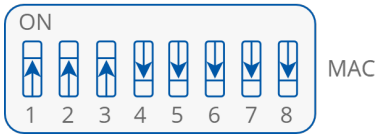
*Table 5. Default values*

For more information on changing the protocol parameters, check the FCU Application manual and FCU Hardware manual.

## 3.3 Step 2: Setting Controller Address

### 3.3.1 MAC DIP Switch Configuration

For the controller to operate correctly in the network, its address needs to be set to the desired value. The controller address is set by the MAC DIP switch. The state of the MAC DIP switch represents binary information of the controller address. The first 10 addresses and corresponding DIP switch setting is shown below.

| Address | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | MAC DIP Switch Configuration |
|---|---|---|---|---|---|---|---|---|---|
| 1 | On | | | | | | | |   |
| 2 | | On | | | | | | |   |
| 3 | On | On | | | | | | |   |
| 4 | | | On | | | | | |   |
| 5 | On | | On | | | | | |   |
| 6 | | On | On | | | | | |   |
| 7 | On | On | On | | | | | |   |

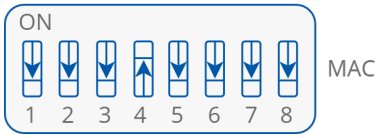
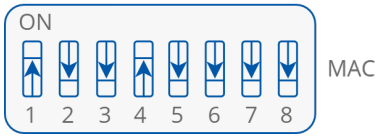
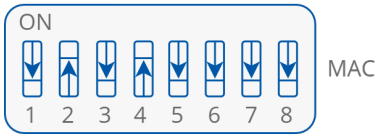
| Address | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | MAC DIP Switch Configuration |
|---|---|---|---|---|---|---|---|---|---|
| 8 | | | | On | | | | |   |
| 9 | On | | | On | | | | |   |
| 10 | | On | | On | | | | |   |

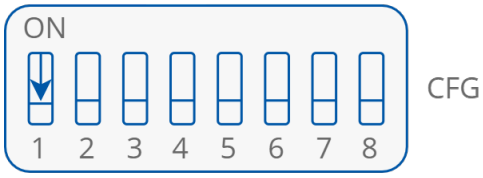
*Table 6. MAC DIP switch configuration*

For another address DIP switch configuration, see the iSMA-B-FCU Hardware manual.

## 3.4 Step 3: Choosing the FCU Pipe Type

The iSMA-B-FCU can be used in 4-pipe installations as well as in 2-pipe installations. In order for the controller to operate correctly in the application, it is necessary to know the fan coil pipe type and set the CFG DIP switch to the corresponding settings as described below.

### 3.4.1 4-Pipe Heating and Cooling




**4-pipe–heating and cooling**

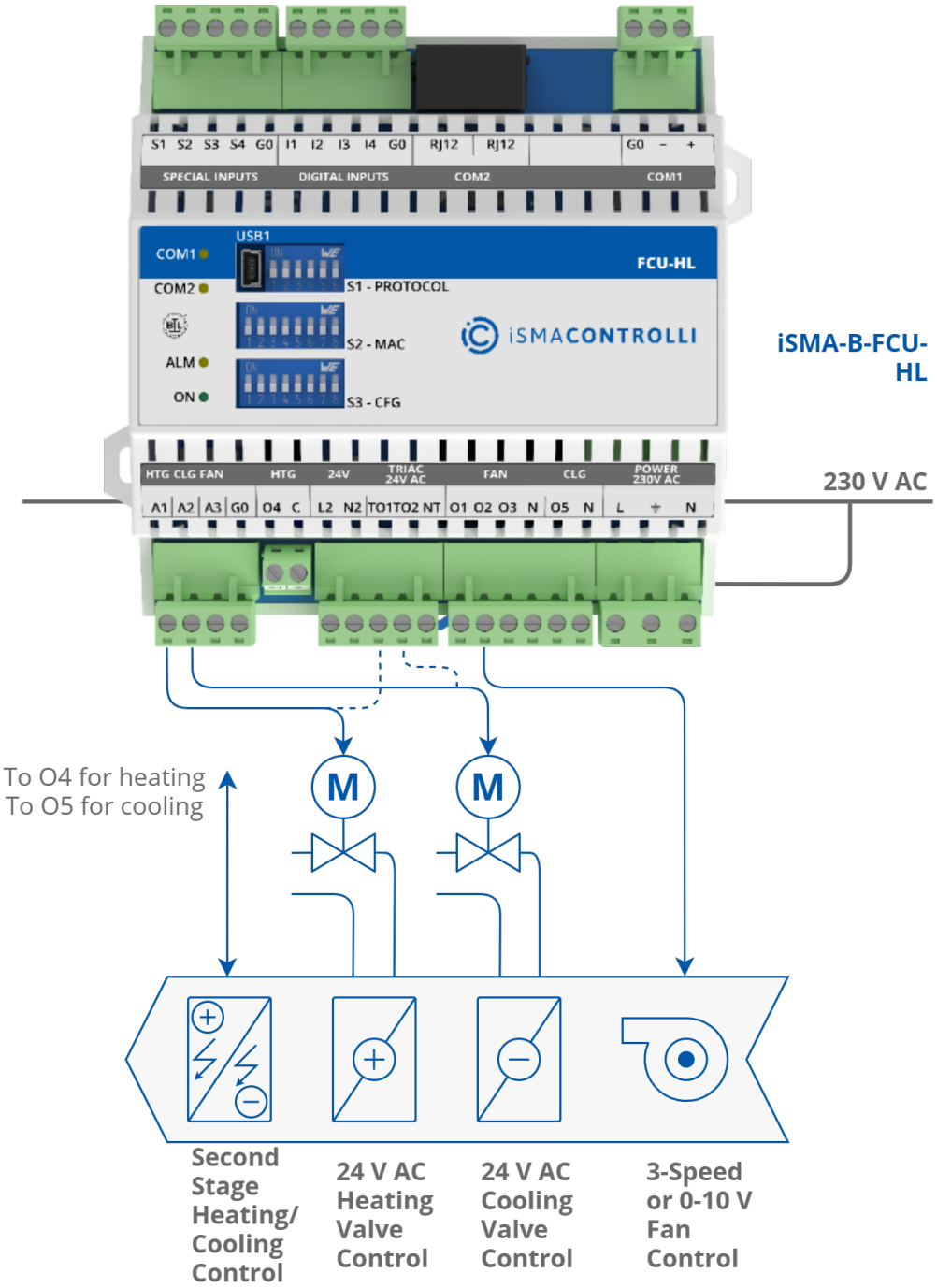



*Figure 3. 4-pipe FCU installation*

## 3.4.2 2-Pipe Only Heating or Only Cooling


**2-pipe–only heating or only cooling**

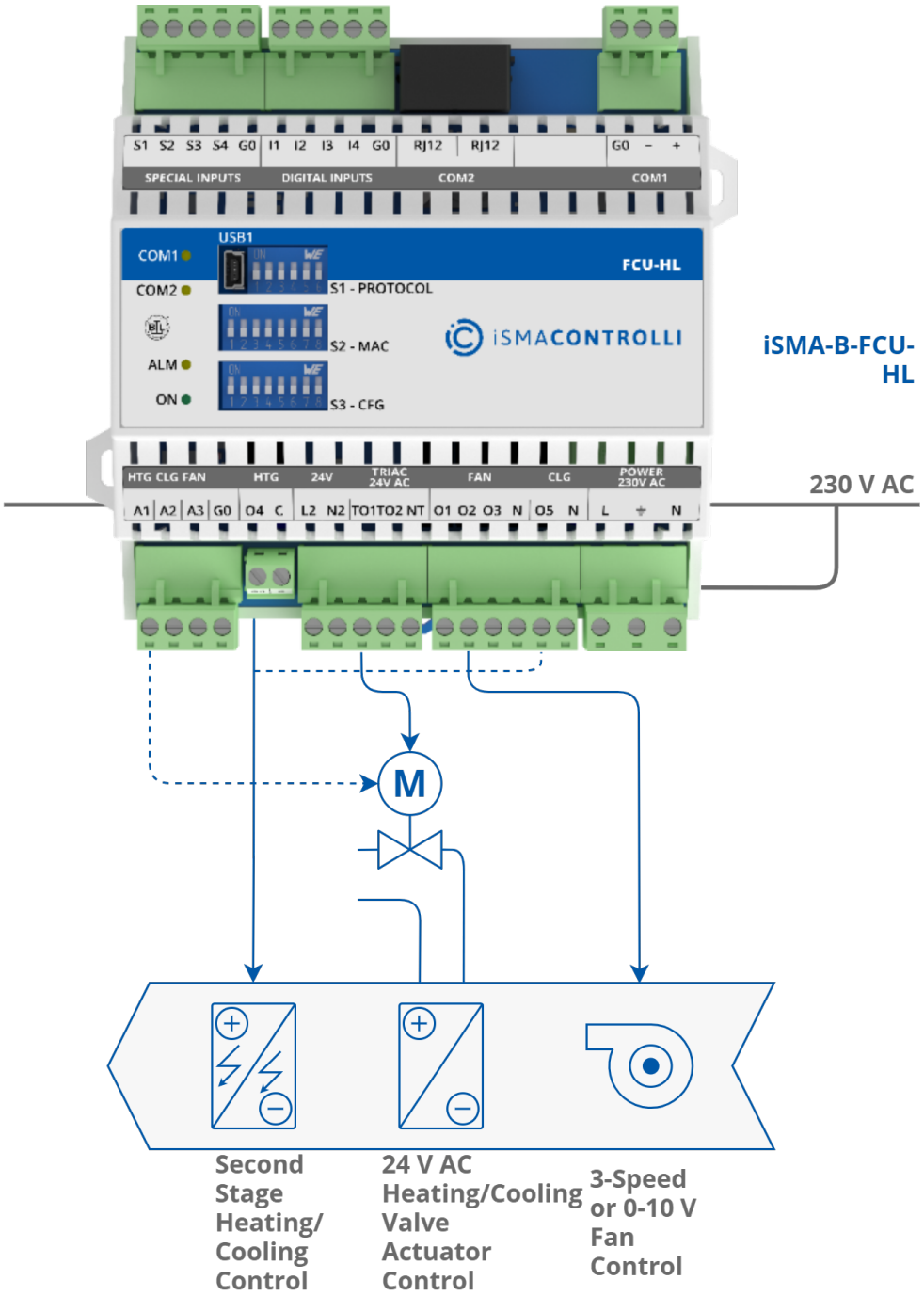



*Figure 4. 2-pipe FCU installation*

For connection details go to steps 6, 7, and 8.

For more information on configuring the FCU pipe types, check the FCU Application manual.

## 3.5 Step 4: Switching Between 1 Heating Stage and 2 Heating Stages Modes

The fan coil unit can operate with one heating device or with two heating devices. This needs to be configured with the 2nd section of the CFG DIP switch.

### 3.5.1 2 Stages of Heating in 4-Pipe Fan Coil Unit


CFG

**1 stage heating = 1 heating device**


CFG

**2 stage heating = 2 separate heating devices**

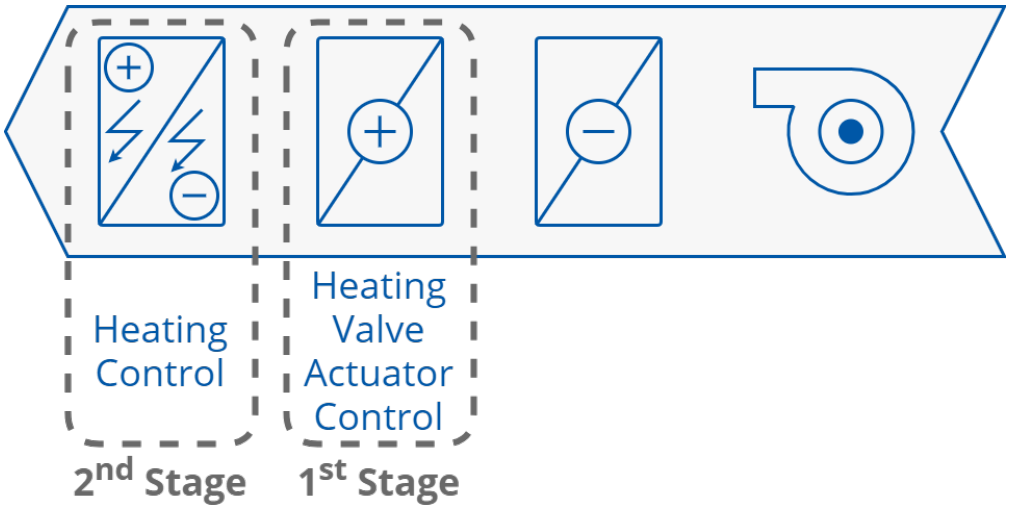


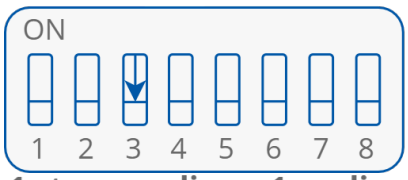

*Figure 5. 2 stages of heating in 4-pipe FCU installation*

For more information on configuring stages of heating, check the FCU Application manual.

## 3.6 Step 5: Switching Between 1 Cooling Stage and 2 Cooling Stages Modes

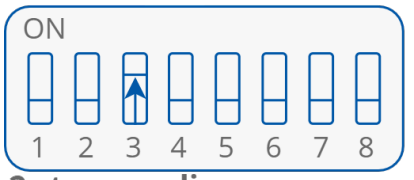
The fan coil unit can operate with one cooling device or with two cooling devices. This needs to be configured with the 3rd DIP switch CFG.

### 3.6.1 2 Stages of Cooling in 4-Pipe Fan Coil Unit




CFG

**1 stage cooling = 1 cooling device**




CFG

**2 stage cooling =**
**2 separate cooling devices**

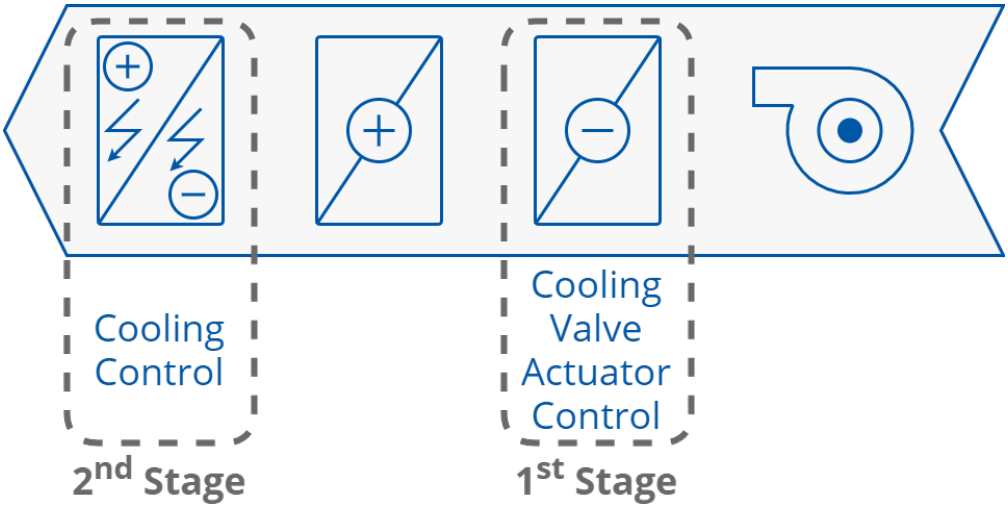
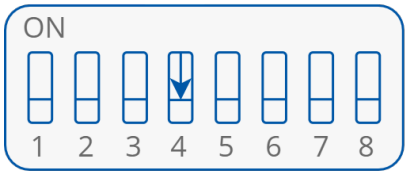



*Figure 6. 2 stages of cooling in 2-pipe FCU installation*

For more information on configuring stages of cooling, check the FCU Application manual.

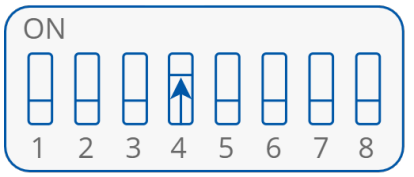
## 3.7 Step 6: Selecting Type of Control Required by the FCU Valves and Connection Details

The controller's outputs can operate in digital or analog mode. Depending on the fan coil unit actuators control type, the corresponding DIP switch has to be set to a desired position.




CFG

**Digital–works only as 2 state valve (open-close)**




CFG

**Analog–PWM or 0-10 V**

The figure below pictures the connection of heating actuators:

- A1 for analog 0-10 V control;
- TO1 for analog PWM or digital ON-OFF control;
- O4 for digital ON-OFF control.

Note that, when using the second stage heating, the additional second stage heater can be controlled only by the O4 output, leaving the A1 or TO1 for the first stage. Otherwise, when using only the first stage heating, the O4 output can be used for digital control of the first stage heating actuator.

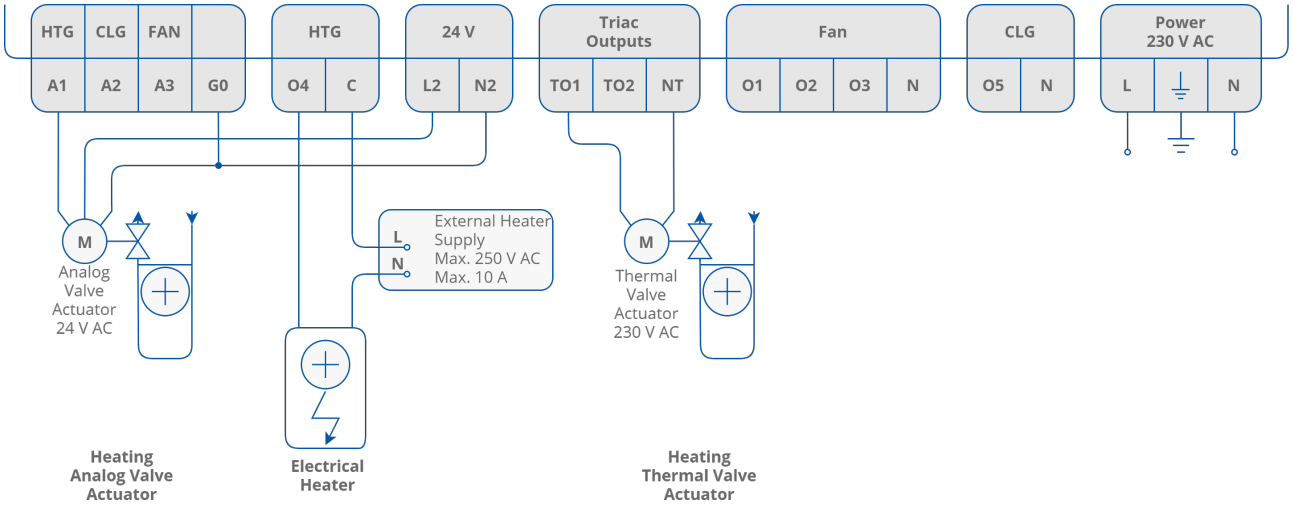



*Figure 7. Heating actuators connection*

The figure below pictures the connection of cooling actuators:

- A1 for analog 0-10 V control while operating in 2-pipe mode;
- A2 for analog 0-10 V control while operating in 4-pipe mode;
- TO1 for analog PWM or digital ON-OFF control while operating in 2-pipe mode;
- TO2 for analog PWM or digital ON-OFF control while operating in 4-pipe mode;
- O5 for digital ON-OFF control.

Note that, when using the second stage cooling, the additional second stage cooler can be controlled only by the O5 output, leaving the A1, A2, TO1, or TO2 for the first stage. Otherwise, when using only the first stage cooling, the O5 output can be used for digital control of the first stage cooling actuator.

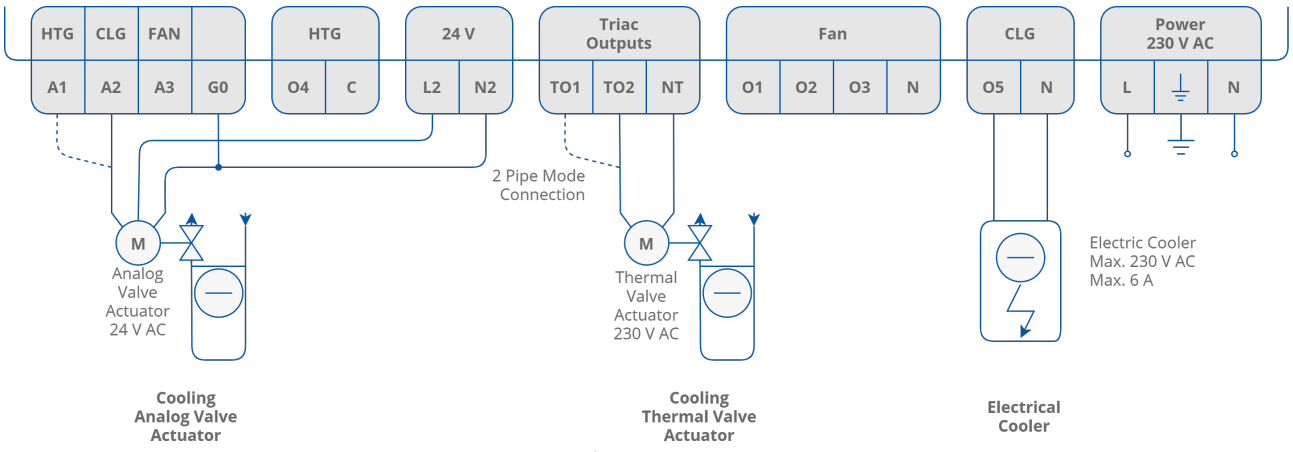



*Figure 8. Cooling actuators connection*

For more information on control types and connection details, check the FCU Application manual and FCU Hardware manual.

## 3.8 Step 7: Selecting the Temperature Control Value Source and its Connection Details

The temperature control value source has to be specified with the DIP switches 5 and 6. By default, the sensor's type, served by the controller's inputs S1 and S3, is the 10K3A1 NTC.

The temperature sensor type can be changed using the iC Tool software.

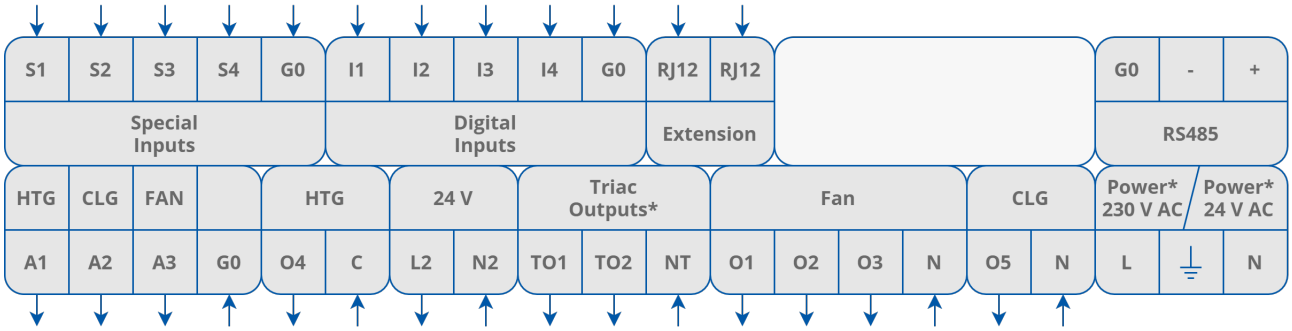
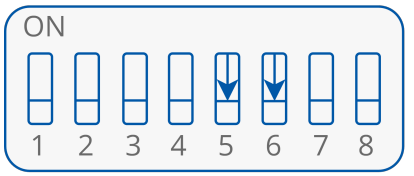



*Figure 9. FCU connectors*

### 3.8.1 Temperature Source: iSMA-B-LP/Touch Point/Control Point/FP Room Panel




CFG

**iSMA-B-LP/Touch Point/ Control Point/FP room panel**

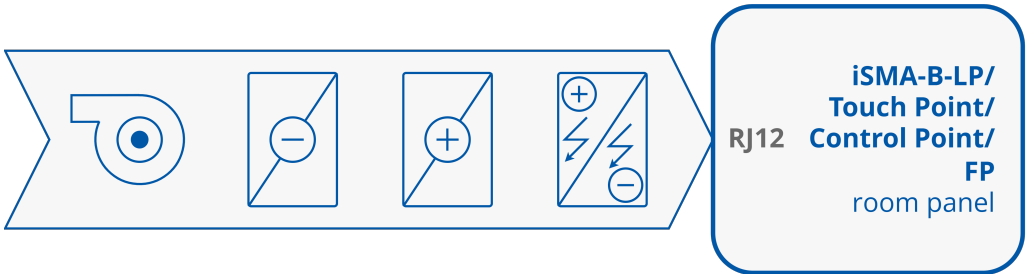
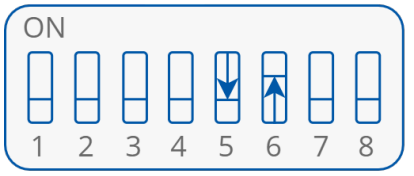



*Figure 10. The LP/Touch Point/Control Point/FP room panel set as a temperature source*

### 3.8.2 Temperature Source Connected to S3




CFG

**Room sensor connected to S3 (space temperature sensor)**

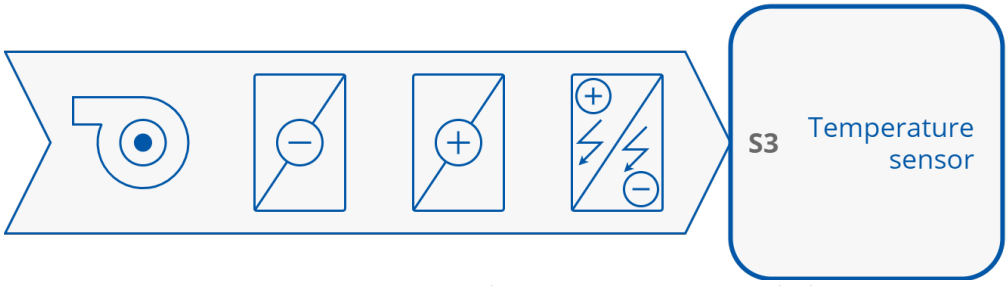
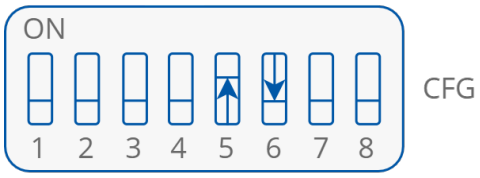



*Figure 11. Temperature sensor connected to S3 as a temperature control value source*

### 3.8.3 Temperature Source Connected to S1




**Returning air temperature sensor connected to S1**

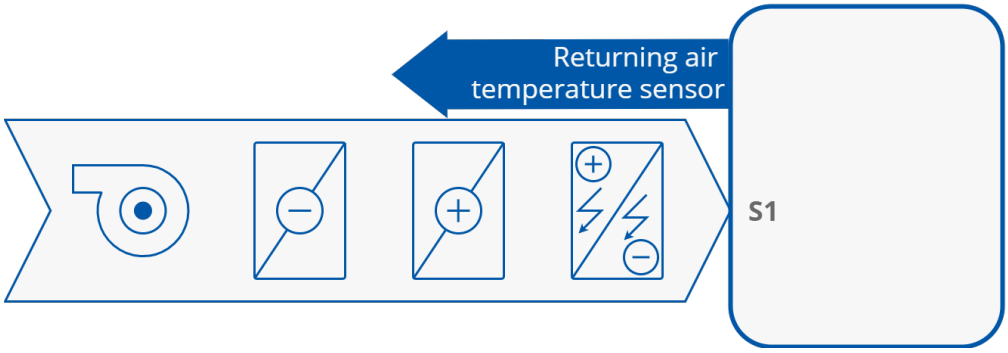
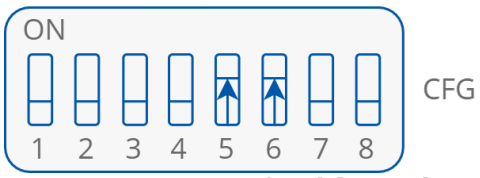



*Figure 12. Returning air temperature sensor connected to S1*

### 3.8.4 Temperature Source Connected to RS485 Network




**Temperature received from the Modbus network (Holding register 106)**

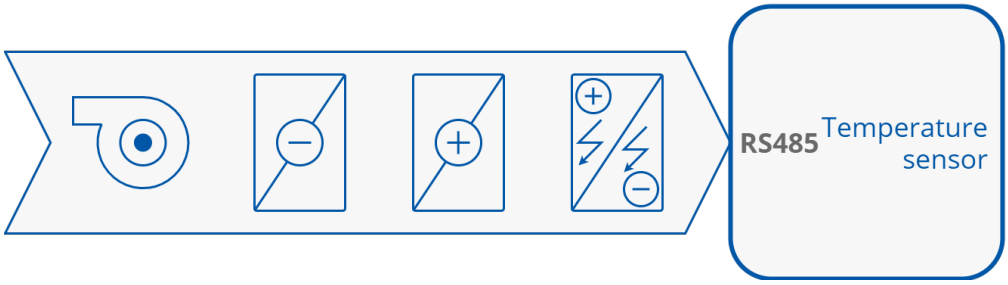


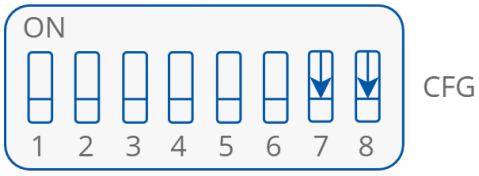

*Figure 13. Temperature control value source set to the RS485 network*

For more information, check the FCU Application manual and FCU Hardware manual.

## 3.9 Step 8: Selecting Type of Fan Used Within the Project and its Connection Details

There are many fan types the iSMA-B-FCU supports, and it can be configured for the fan coil unit used in the project.

### 3.9.1 Analog Controlled Fan Connection




**Analog controlled fan**

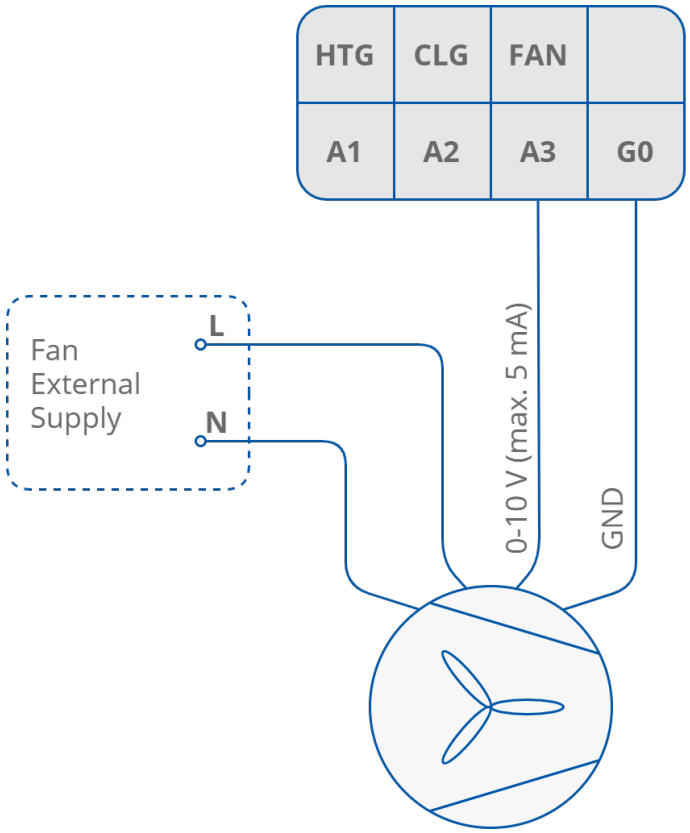
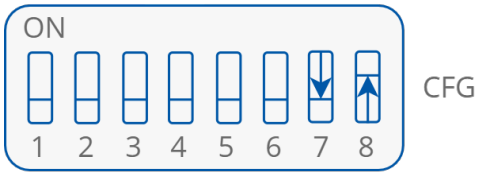



*Figure 14. Analog controlled fan connection*

### 3.9.2 1-speed Fan Connection




**1 Speed Fan**

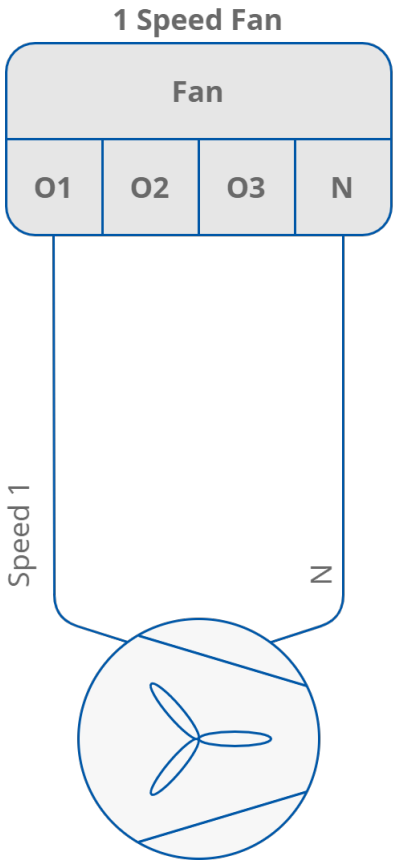
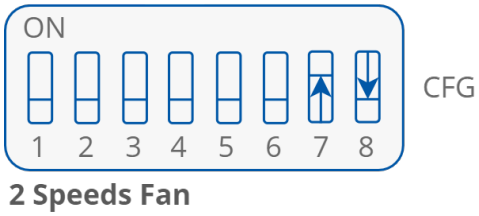



*Figure 15. 1-speed fan connection*

### 3.9.3 2-speed Fan Connection



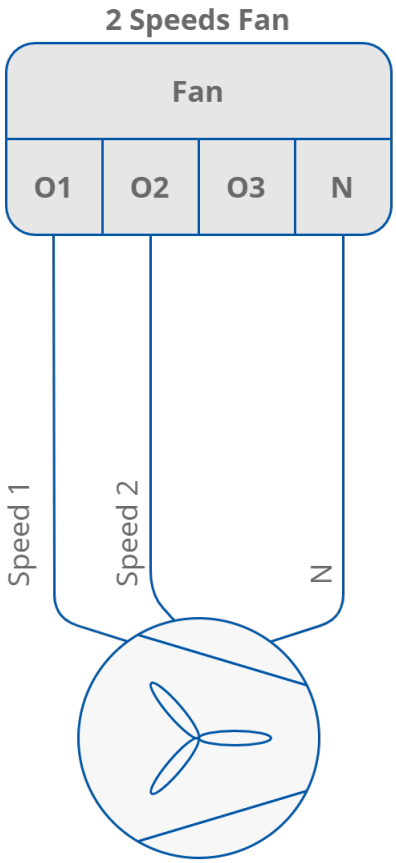
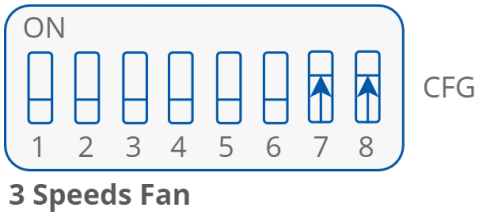



*Figure 16. 2-speed fan connection*

### 3.9.4 3-speed Fan Connection



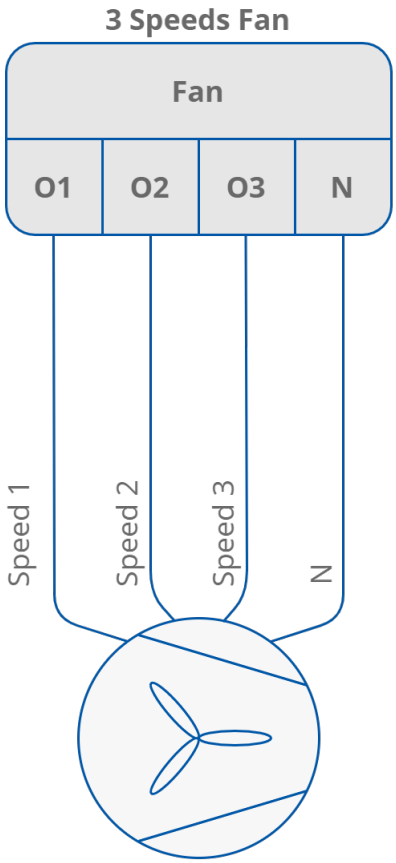



*Figure 17. 3-speed fan connection*

# 4 Examples: Connecting Actuators and Sensors to the Controller

## 4.1 Connections Overview

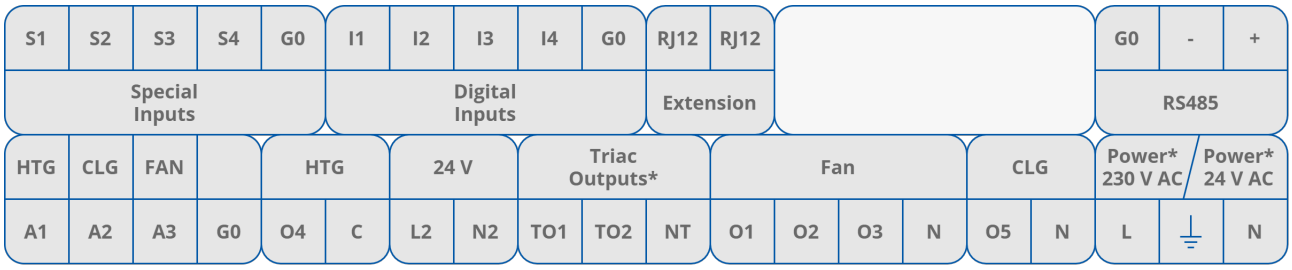



*Figure 18. Inputs and outputs overview*

## 4.2 Connection Examples

The examples below do not include selection of the temperature control value source. Connecting the temperature control value source is described in Step 7 of this manual. In examples, DIP switch sections 5 and 6 are set to OFF.

The 24 V power source for heater and cooler actuators can be taken from L2/N2 connectors.

If 2nd stages of heating or cooling is used, check Step 6 for connection information.

### 4.2.1 4-pipe Installation with 1-stage Digital Controlled Heating and Cooling and Analog Controlled Fan

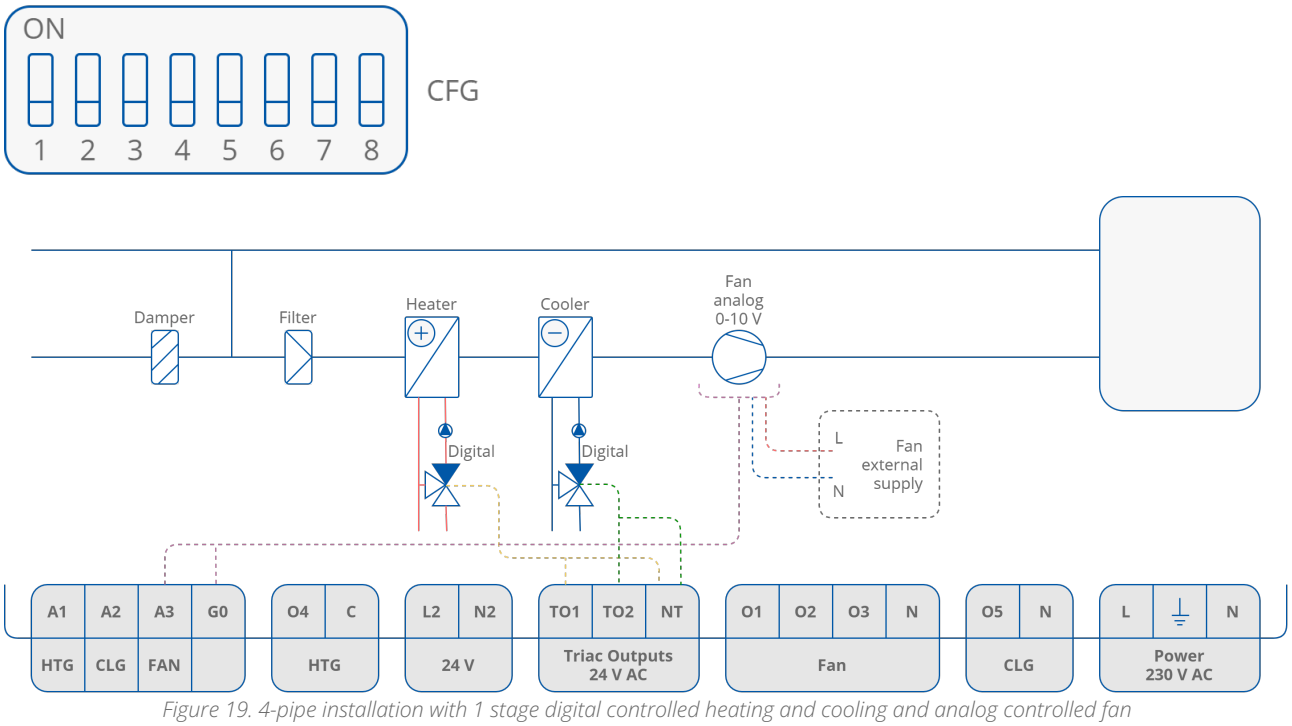



*Figure 19. 4-pipe installation with 1 stage digital controlled heating and cooling and analog controlled fan*

### 4.2.2 4-pipe Installation with 1-stage Digital Controlled Heating and Cooling and 1-speed Fan

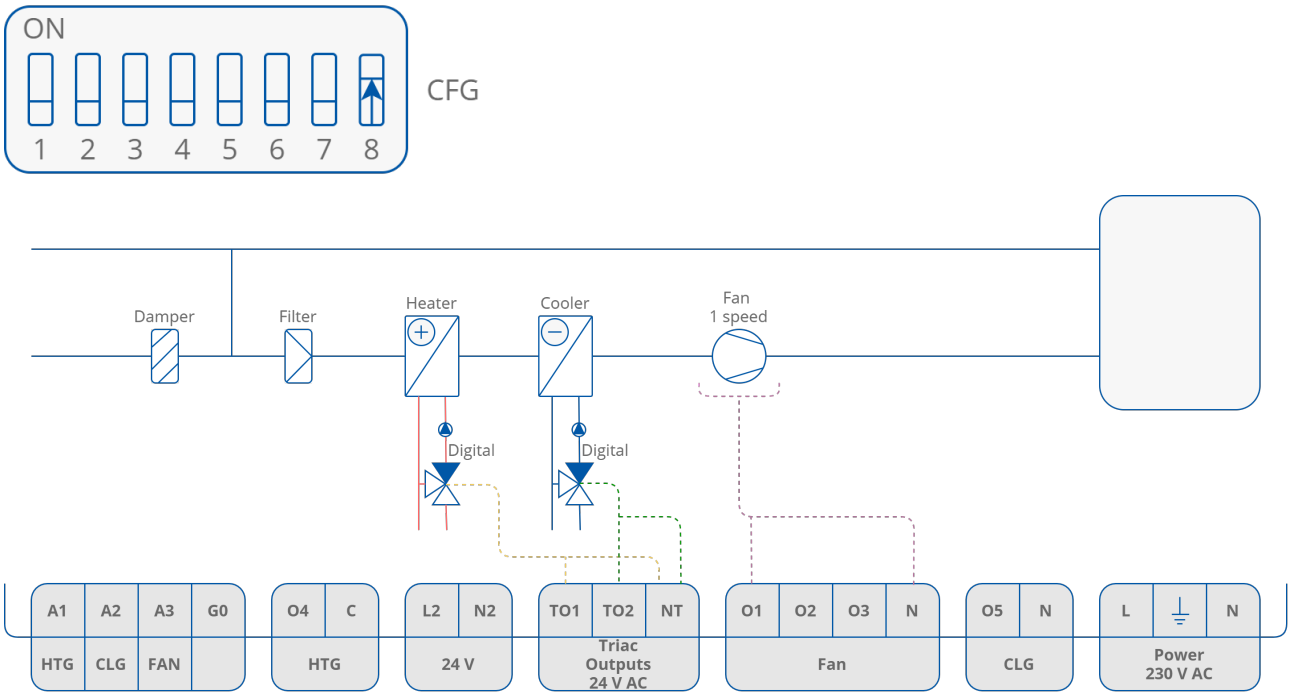



*Figure 20. 4-pipe installation with 1-stage digital controlled heating and cooling and 1-speed fan*

### 4.2.3 4-pipe Installation with 1-stage Digital Controlled Heating and Cooling and 2-speed Fan

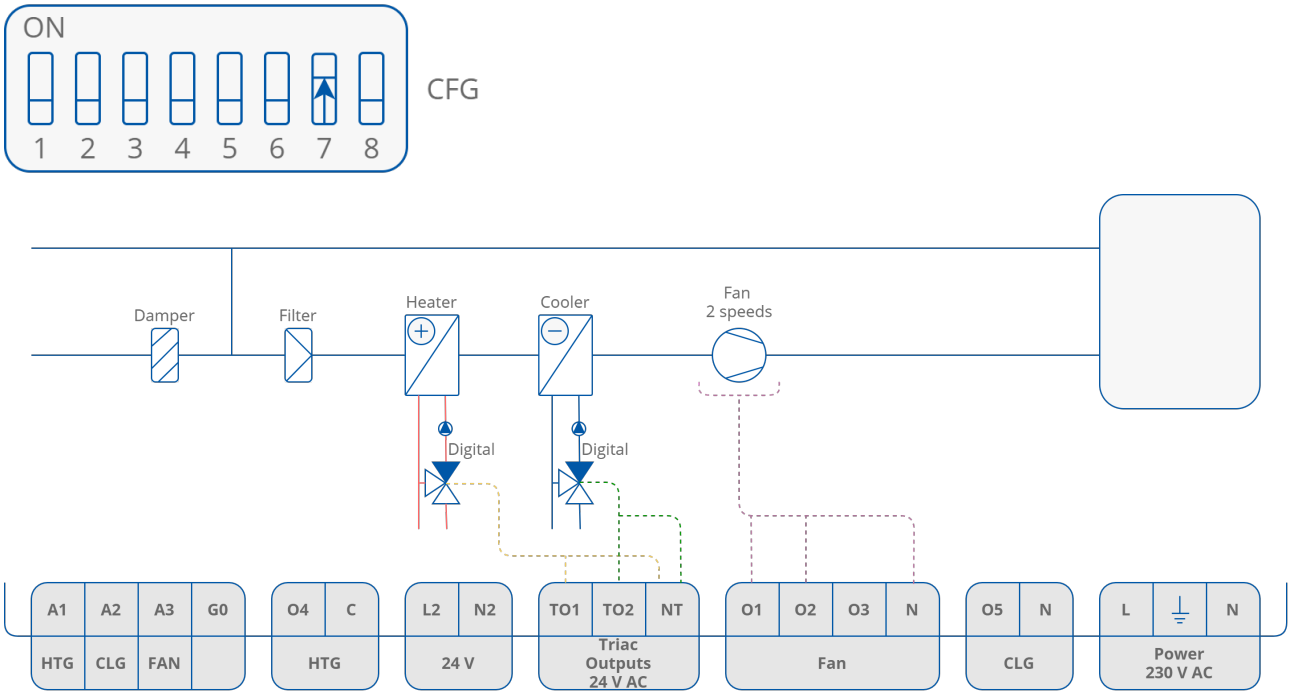



*Figure 21. 4-pipe installation with 1-stage digital controlled heating and cooling and 2-speed fan*

## 4.2.4 4-pipe Installation with 1-stage Digital Controlled Heating and Cooling and 3-speed Fan

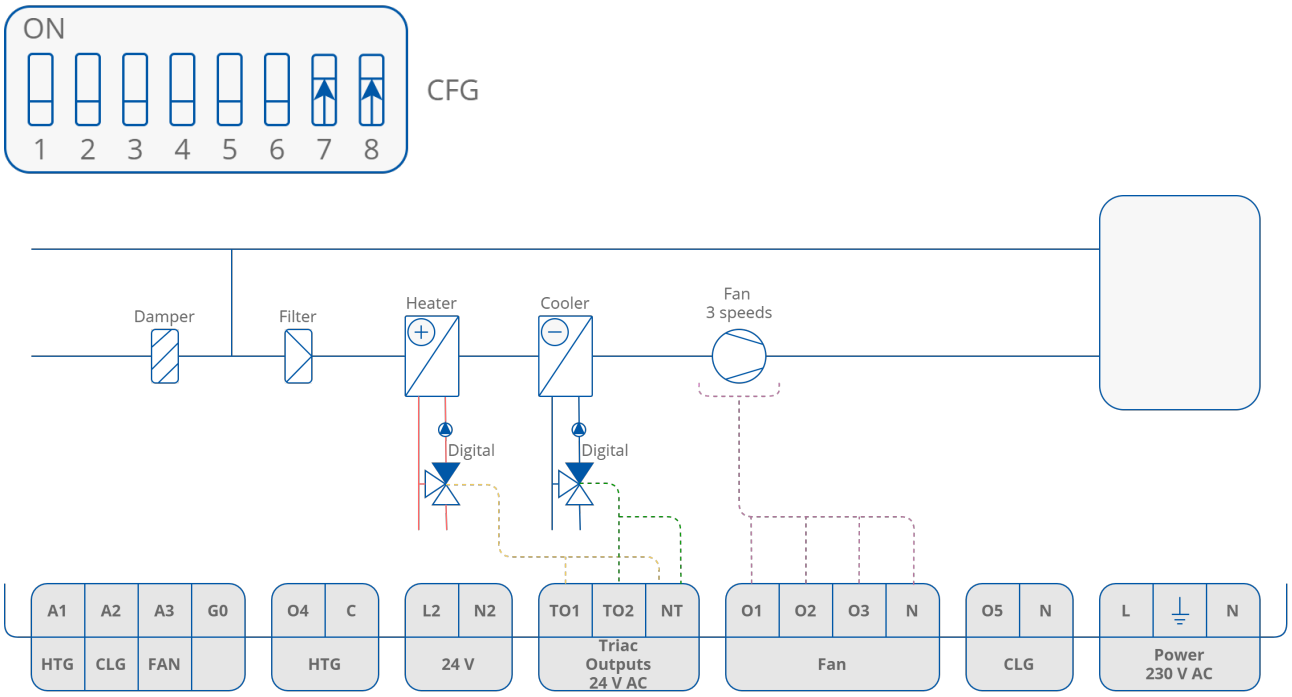



*Figure 22. 4-pipe installation with 1-stage digital controlled heating and cooling and 3-speed fan*

## 4.2.5 4-pipe Installation with 1-stage Analog Controlled Heating and Cooling and Analog Controlled Fan

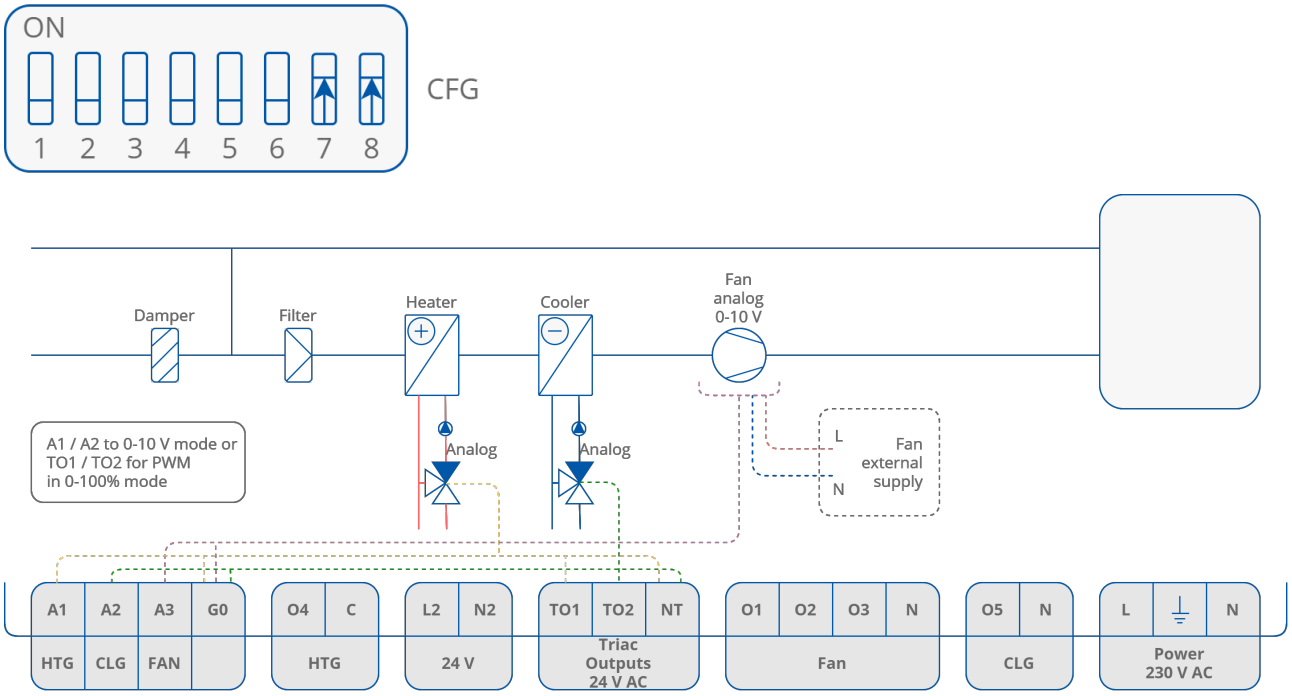



*Figure 23. 4-pipe installation with 1 stage analog controlled heating and cooling and analog controlled fan*

## 4.2.6 4-pipe Installation with 1-stage Analog Controlled Heating and Cooling and 1-speed Fan

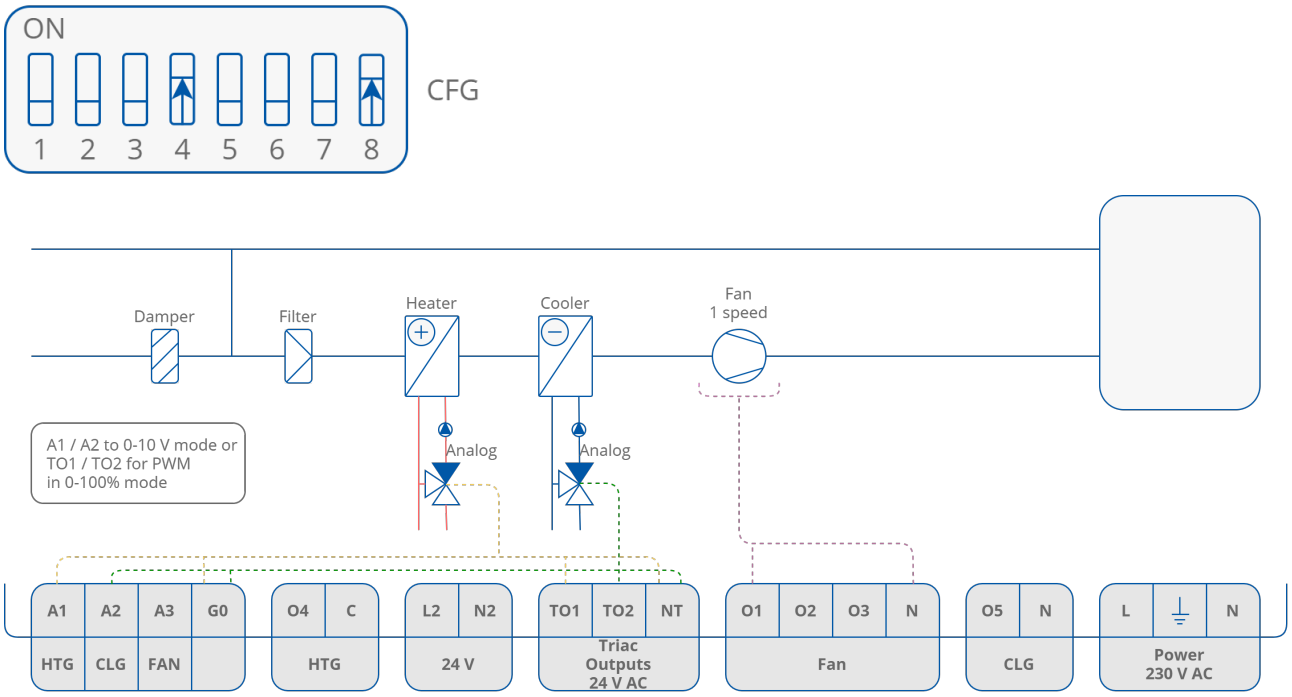



*Figure 24. 4-pipe installation with 1-stage analog controlled heating and cooling and 1-speed fan*

## 4.2.7 4-pipe Installation with 1-stage Analog Controlled Heating and Cooling and 2-speed Fan

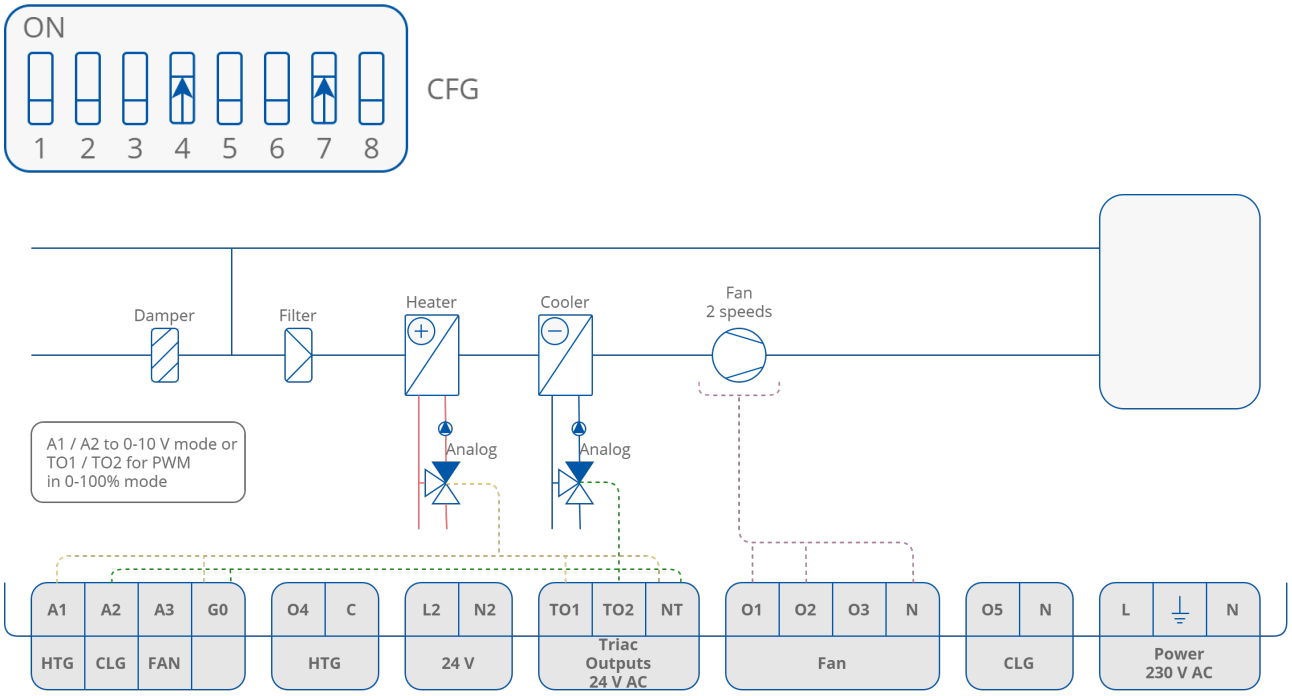



*Figure 25. 4-pipe installation with 1-stage analog controlled heating and cooling and 2-speed fan*

## 4.2.8 4-pipe Installation with 1-stage Analog Controlled Heating and Cooling and 3-speed Fan

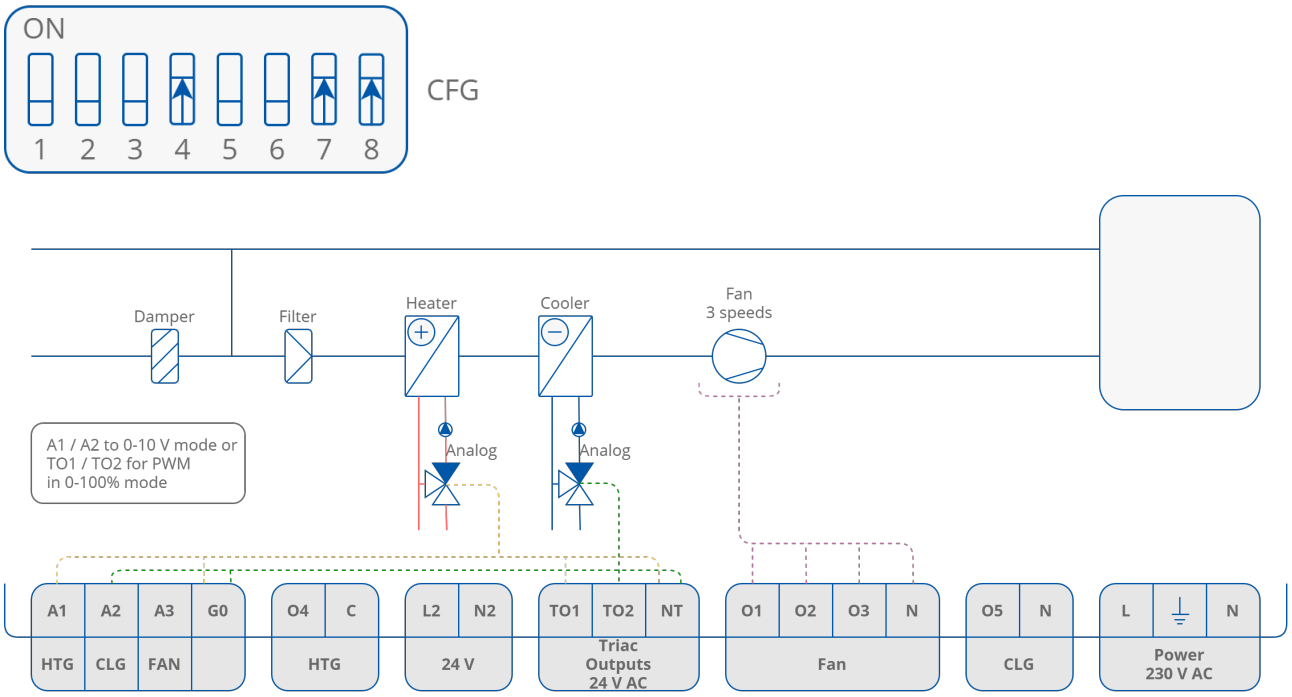



*Figure 26. 4-pipe installation with 1-stage analog controlled heating and cooling and 3-speed fan*

## 4.2.9 2-pipe Installation with 1-stage Digital Controlled Cooling and Analog Controlled Fan

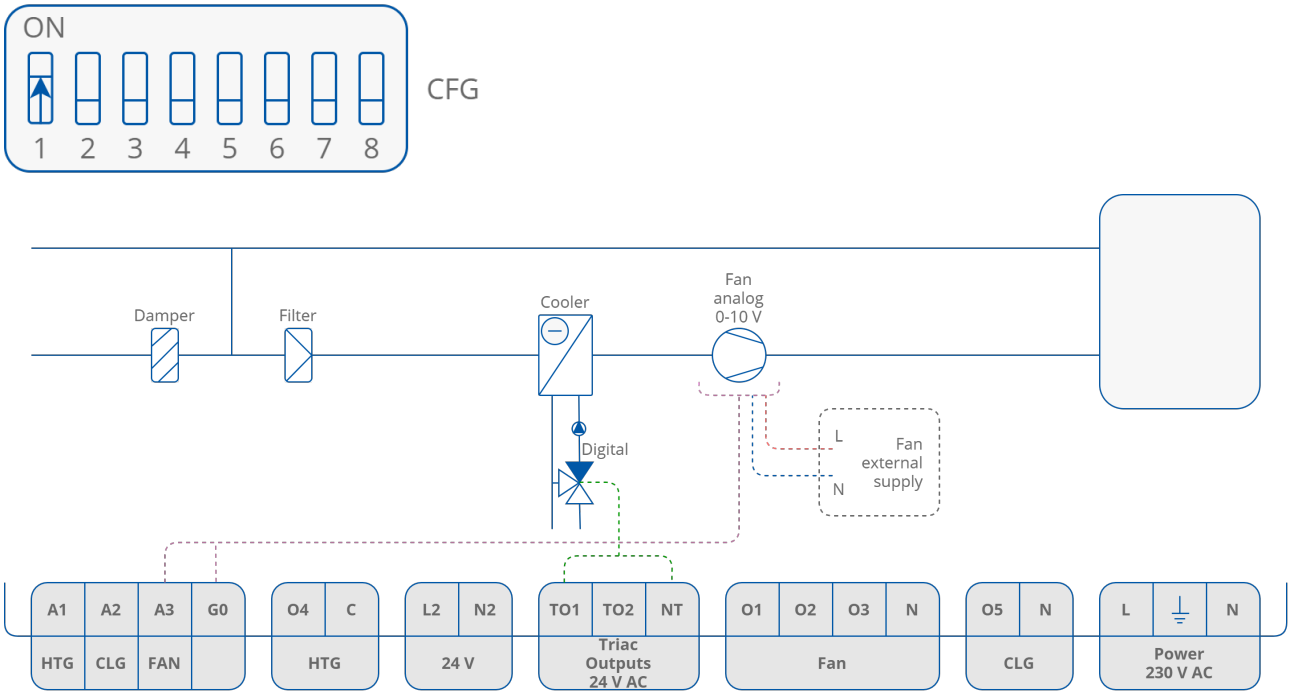



*Figure 27. 2-pipe installation with 1-stage digital controlled cooling and analog controlled fan*

## 4.2.10 2-pipe Installation with 1-stage Digital Controlled Heating and 1-speed Fan

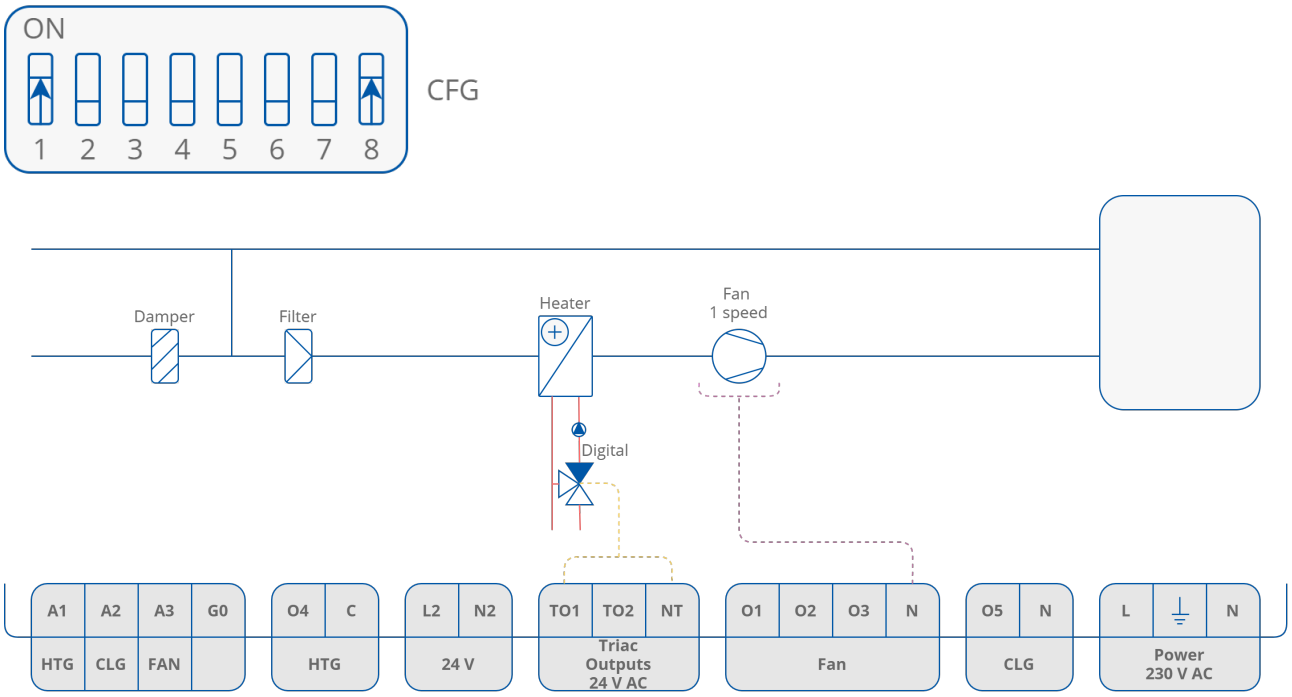



*Figure 28. 2-pipe installation with 1-stage digital controlled heating and 1-speed fan*

## 4.2.11 2-pipe Installation with 1-stage Digital Controlled Cooling and 2-speed Fan

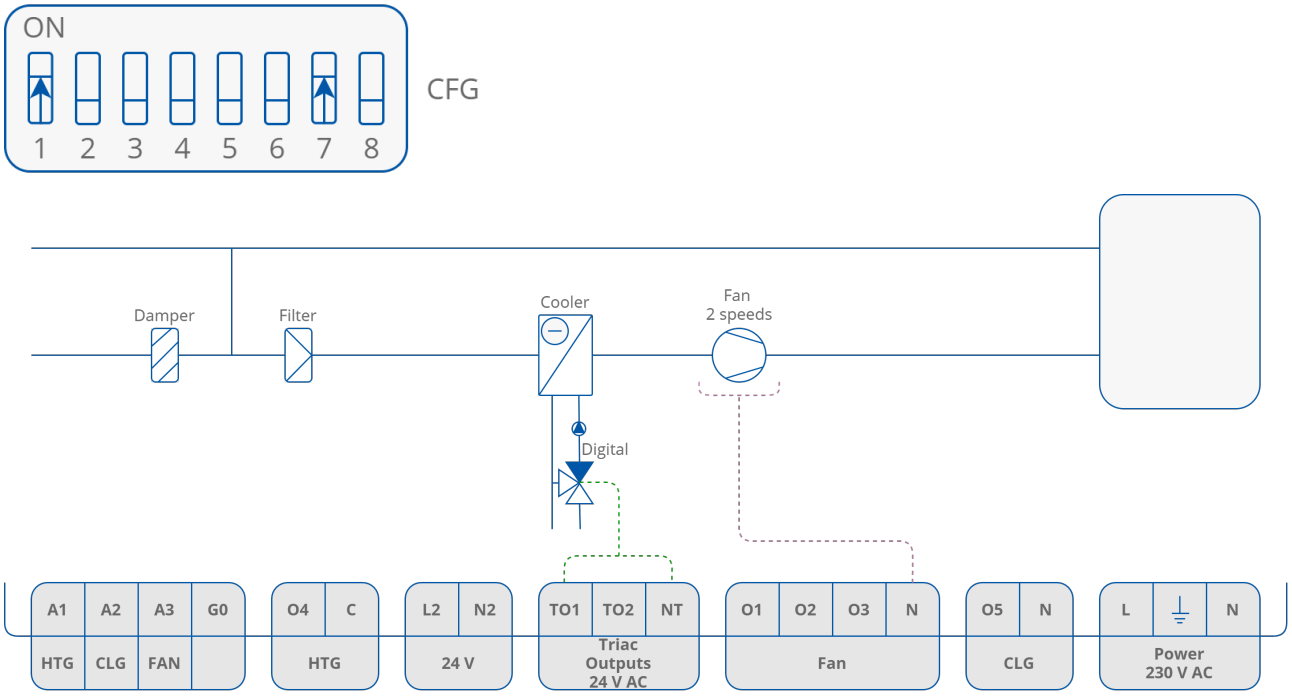



*Figure 29. 2-pipe installation with 1-stage digital controlled cooling and 2-speed fan*

## 4.2.12 2-pipe Installation with 1-stage Digital Controlled Heating and 3-speed Fan

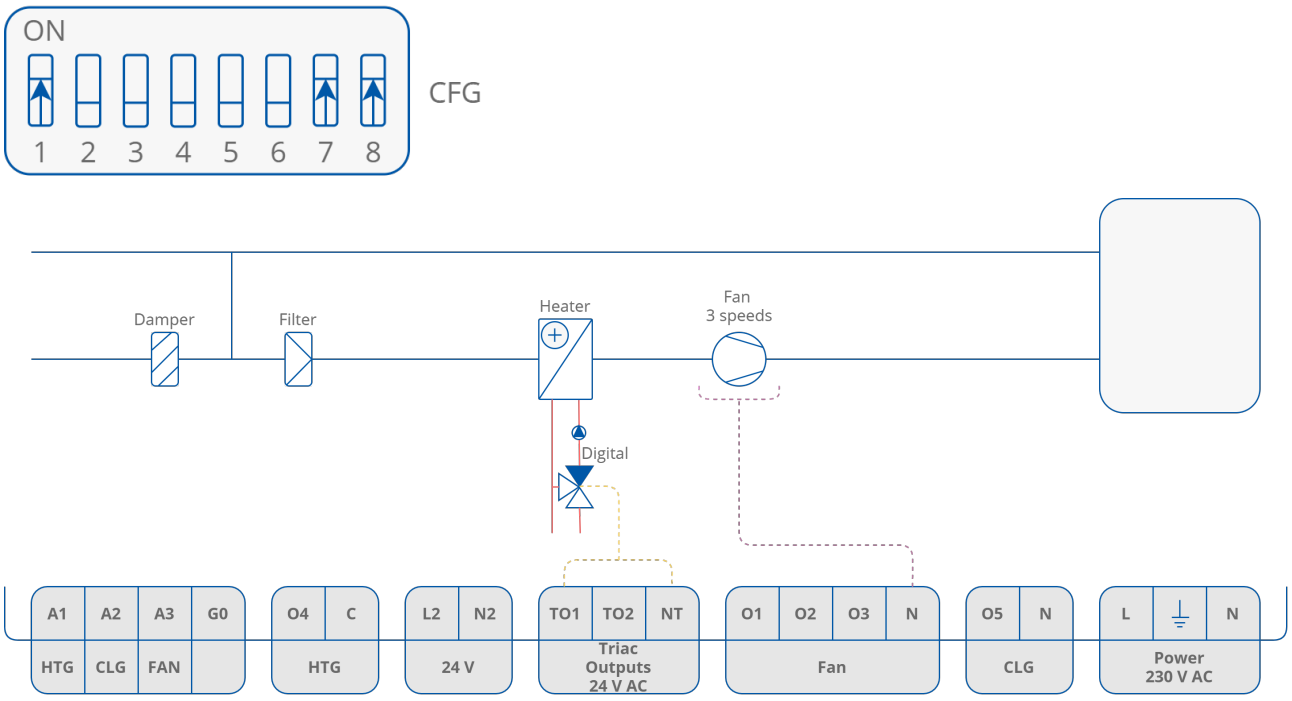



*Figure 30. 2-pipe installation with 1-stage digital controlled heating and 3-speed fan*

## 4.2.13 2-pipe Installation with 1 Stage Analog Controlled Cooling and Analog Controlled Fan

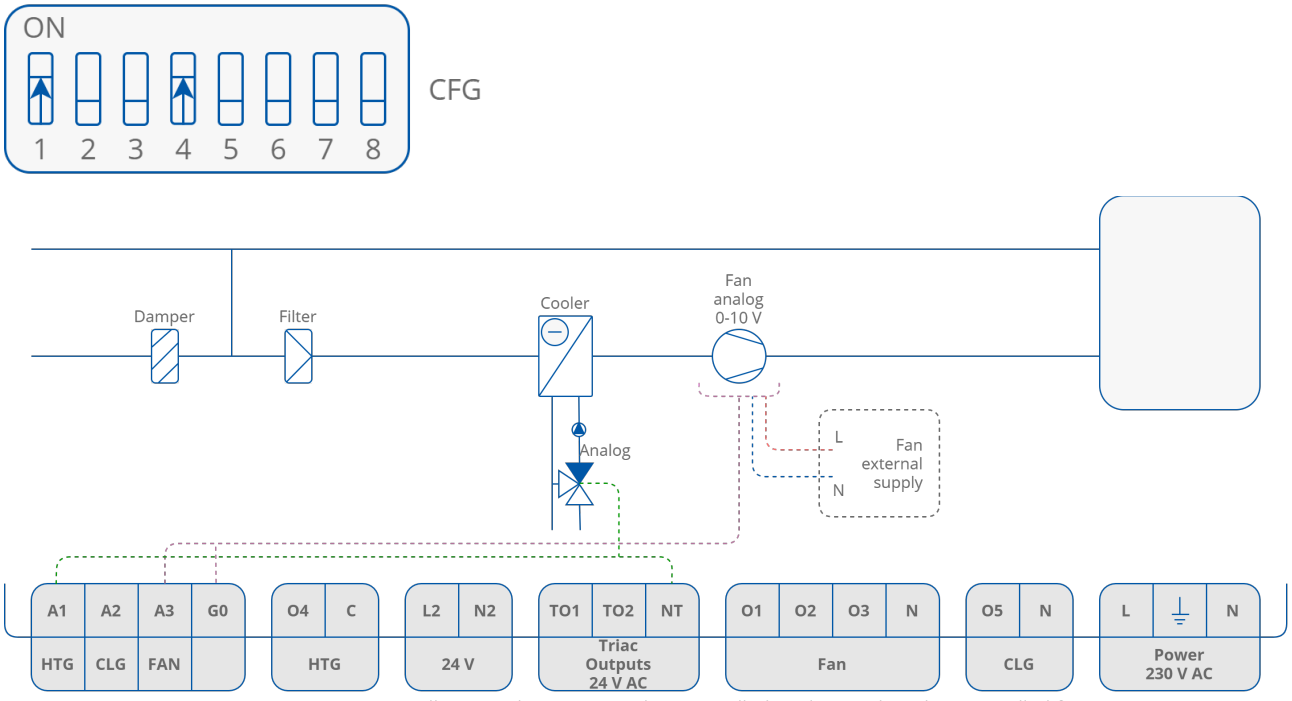



*Figure 31. 2-pipe installation with 1-stage analog controlled cooling and analog controlled fa*

## 4.2.14 2-pipe Installation with 1-stage Analog Controlled Heating and 1-speed Fan

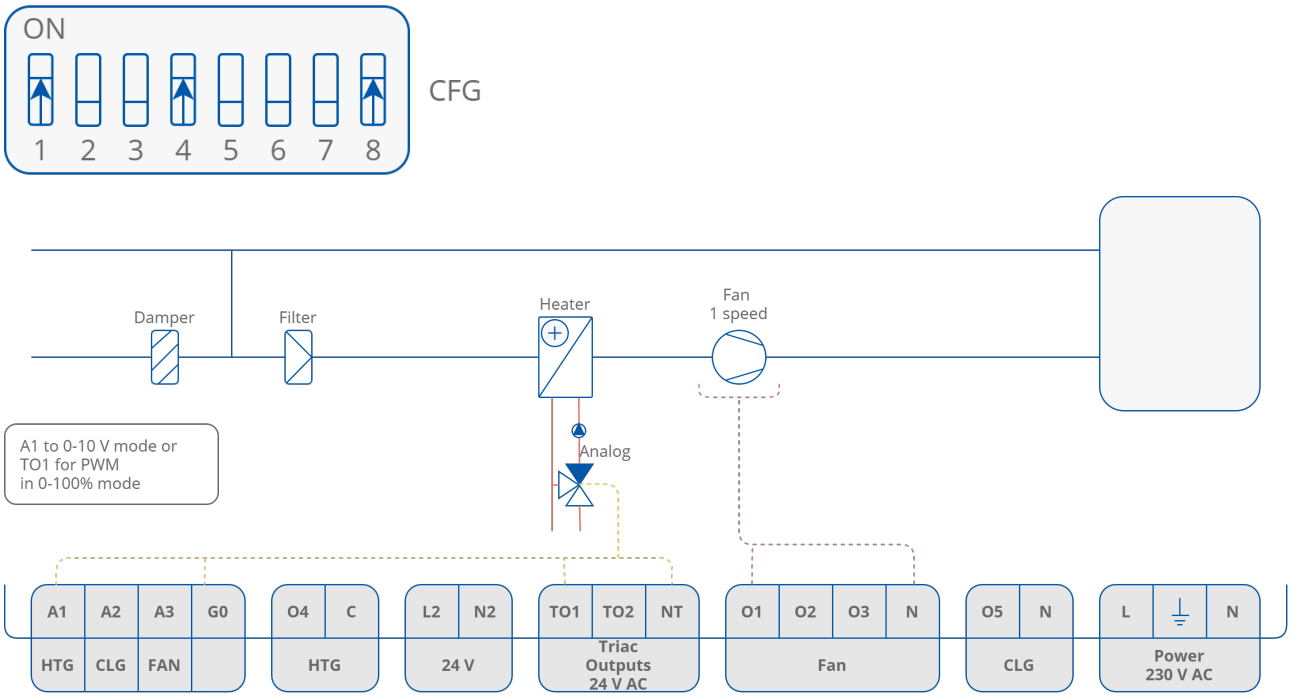



*Figure 32. 2-pipe installation with 1-stage analog controlled heating and 1-speed fan*

## 4.2.15 2-pipe Installation with 1-stage Analog Controlled Cooling and 2-speed Fan

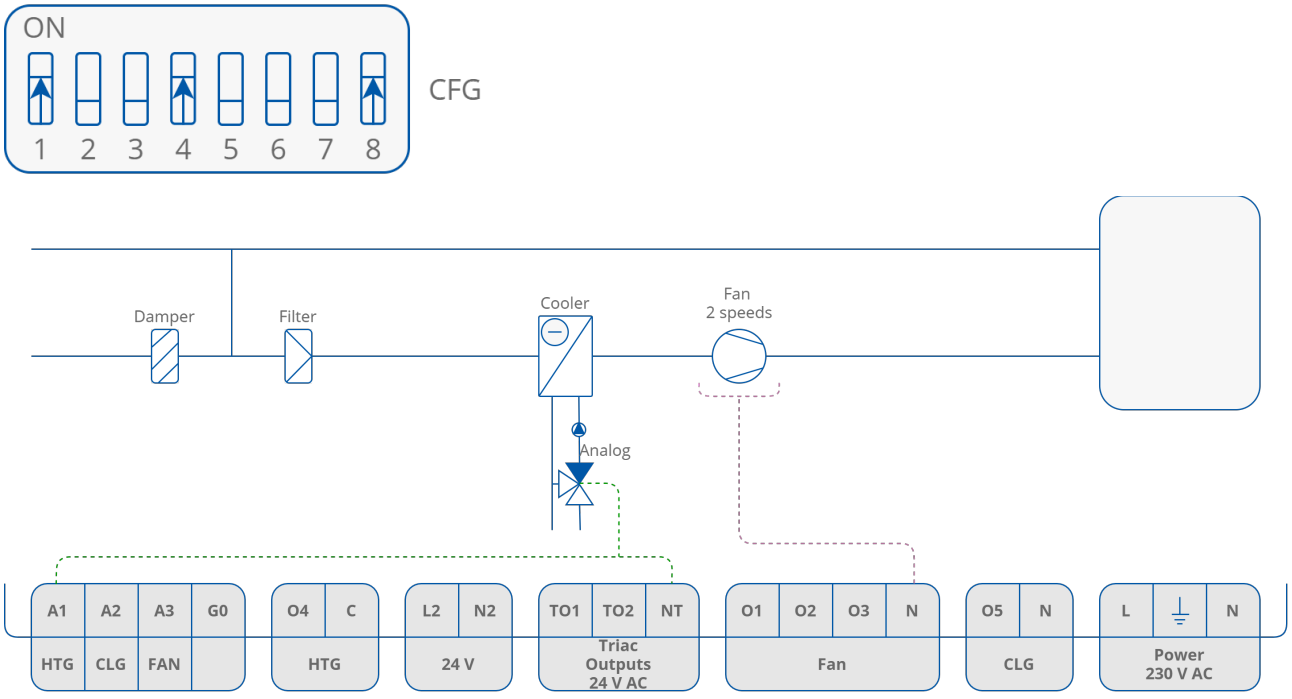



*Figure 33. 2-pipe installation with 1-stage analog controlled cooling and 2-speed fan*

## 4.2.16 2-pipe Installation with 1-stage Analog Controlled Heating and 3-speed Fan

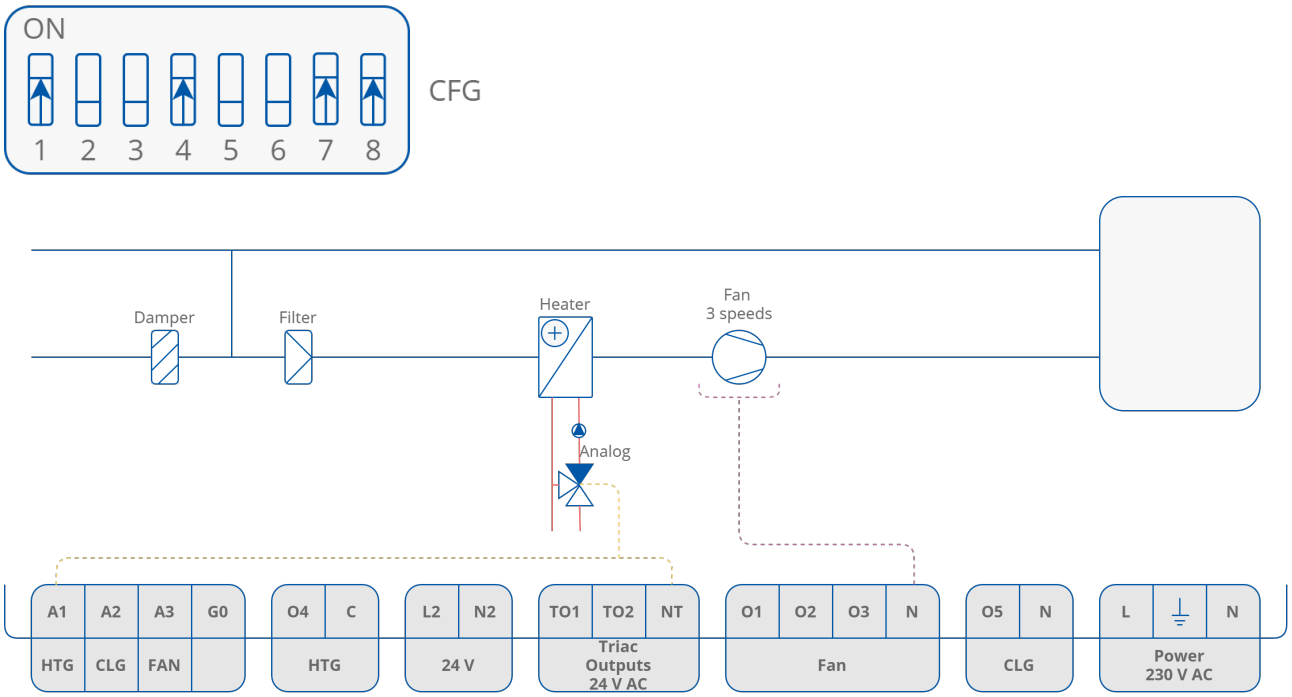



*Figure 34. 2-pipe installation with 1-stage analog controlled heating and 3-speed fan*

# 5 All Configurations for FCU Default Application

| DIP Switch | 5 | 6 | 7 | 8 | Setting |
|---|---|---|---|---|---|
| Temperature source | OFF | OFF | | | iSMA-B-LP/Touch Point/Control Point/FP room panel |
| | OFF | ON | | | Room sensor (SI3) |
| | ON | OFF | | | Returning air temperature sensor (SI1) |
| | ON | ON | | | Temperature from Modbus network |
| Fan | | | OFF | OFF | Analog control |
| | | | OFF | ON | 1 speed |
| | | | ON | OFF | 2 speeds |
| | | | ON | ON | 3 speeds |

*Table 7. DIP switch settings for selecting a temperature source and fan type*

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| Function | FCU Pipe Mode | Heating | Cooling | Control | Temperature source | Fan | |
| | Off (4-pipe)<br>On (2-pipe) | Off (1-stage)<br>On (2-stage) | Off (1-stage)<br>On (2-stage) | Off (digital)<br>On (analog) | For configuration see table above | For configuration see table above | |
| 1 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 2 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control | 1 speed |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| | | | | | Point/FP room panel | | |
| 3 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |   |
| 4 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |   |
| 5 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | Analog control |   |
| 6 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 1 speed |   |
| 7 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 2 speeds |   |
| 8 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 3 speeds |   |
| 9 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | Analog control |   |
| 10 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 1 speed |   |
| 11 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 2 speeds |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 12 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 3 speeds |   |
| 13 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | Analog control |   |
| 14 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 1 speed |   |
| 15 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 2 speeds |   |
| 16 | 4-pipe | 1-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 3 speeds |   |
| 17 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |   |
| 18 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |   |
| 19 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |   |
| 20 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP | 3 speeds |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| | | | | | room panel | | |
| 21 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | Analog control |  |
| 22 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 1 speed |  |
| 23 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 2 speeds |  |
| 24 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 3 speeds |  |
| 25 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | Analog control |  |
| 26 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 1 speed |  |
| 27 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 2 speeds |  |
| 28 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 3 speeds |  |
| 29 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | Analog control |  |
| 30 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 1 speed |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 31 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 2 speeds |  |
| 32 | 4-pipe | 1-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 3 speeds |  |
| 33 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 34 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 35 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 36 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 37 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | Analog control |  |
| 38 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 1 speed |  |
| 39 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 2 speeds |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 40 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 3 speeds |  |
| 41 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | Analog control |  |
| 42 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 1 speed |  |
| 43 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 2 speeds |  |
| 44 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 3 speeds |  |
| 45 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | Analog control |  |
| 46 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 1 speed |  |
| 47 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 2 speeds |  |
| 48 | 4-pipe | 1-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 3 speeds |  |
| 49 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP | Analog control |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| | | | | | room panel | | |
| 50 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 51 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 52 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 53 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | Analog control |  |
| 54 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 1 speed |  |
| 55 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 2 speeds |  |
| 56 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 3 speeds |  |
| 57 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | Analog control |  |
| 58 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 1 speed |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 59 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 2 speeds |  |
| 60 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 3 speeds |  |
| 61 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | Analog control |  |
| 62 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 1 speed |  |
| 63 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 2 speeds |  |
| 64 | 4-pipe | 1-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 3 speeds |  |
| 65 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 66 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 67 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 68 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 69 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | Analog control |  |
| 70 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 1 speed |  |
| 71 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 2 speeds |  |
| 72 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 3 speeds |  |
| 73 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | Analog control |  |
| 74 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 1 speed |  |
| 75 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 2 speeds |  |
| 76 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 3 speeds |  |
| 77 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | Analog control |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 78 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 1 speed |  |
| 79 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 2 speeds |  |
| 80 | 4-pipe | 2-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 3 speeds |  |
| 81 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 82 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 83 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 84 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 85 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | Analog control |  |
| 86 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 1 speed |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 87 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 2 speeds |   |
| 88 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 3 speeds |   |
| 89 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | Analog control |   |
| 90 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 1 speed |   |
| 91 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 2 speeds |   |
| 92 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 3 speeds |   |
| 93 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | Analog control |   |
| 94 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 1 speed |   |
| 95 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 2 speeds |   |
| 96 | 4-pipe | 2-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 3 speeds |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 97 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 98 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 99 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 100 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 101 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | Analog control |  |
| 102 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 1 speed |  |
| 103 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 2 speeds |  |
| 104 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 3 speeds |  |
| 105 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | Analog control |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 106 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 1 speed |   |
| 107 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 2 speeds |   |
| 108 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 3 speeds |   |
| 109 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | Analog control |   |
| 110 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 1 speed |   |
| 111 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 2 speeds |   |
| 112 | 4-pipe | 2-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 3 speeds |   |
| 113 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |   |
| 114 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 115 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |   |
| 116 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |   |
| 117 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | Analog control |   |
| 118 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 1 speed |   |
| 119 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 2 speeds |   |
| 120 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 3 speeds |   |
| 121 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Returning air temperatu re sensor (SI1) | Analog control |   |
| 122 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Returning air temperatu re sensor (SI1) | 1 speed |   |
| 123 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Returning air temperatu re sensor (SI1) | 2 speeds |   |
| 124 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Returning air temperatu | 3 speeds |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| | | | | | re sensor (SI1) | | |
| 125 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | Analog control |  |
| 126 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 1 speed |  |
| 127 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 2 speeds |  |
| 128 | 4-pipe | 2-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 3 speeds |  |
| 129 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 130 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 131 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 132 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 133 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | Analog control |   |
| 134 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 1 speed |   |
| 135 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 2 speeds |   |
| 136 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 3 speeds |   |
| 137 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | Analog control |   |
| 138 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 1 speed |   |
| 139 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 2 speeds |   |
| 140 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 3 speeds |   |
| 141 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | Analog control |   |
| 142 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 1 speed |   |
| 143 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Temperature from | 2 speeds |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| | | | | | Modbus network | | |
| 144 | 2-pipe | 1-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 3 speeds |  |
| 145 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 146 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 147 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 148 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 149 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | Analog control |  |
| 150 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 1 speed |  |
| 151 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 2 speeds |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 152 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 3 speeds |  |
| 153 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | Analog control |  |
| 154 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 1 speed |  |
| 155 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 2 speeds |  |
| 156 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 3 speeds |  |
| 157 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | Analog control |  |
| 158 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 1 speed |  |
| 159 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 2 speeds |  |
| 160 | 2-pipe | 1-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 3 speeds |  |
| 161 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP | Analog control |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| | | | | | room panel | | |
| 162 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |   |
| 163 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |   |
| 164 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |   |
| 165 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | Analog control |   |
| 166 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 1 speed |   |
| 167 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 2 speeds |   |
| 168 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 3 speeds |   |
| 169 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | Analog control |   |
| 170 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 1 speed |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 171 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 2 speeds |  |
| 172 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Returning air temperature sensor (SI1) | 3 speeds |  |
| 173 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | Analog control |  |
| 174 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 1 speed |  |
| 175 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 2 speeds |  |
| 176 | 2-pipe | 1-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 3 speeds |  |
| 177 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 178 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 179 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 180 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 181 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | Analog control |  |
| 182 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 1 speed |  |
| 183 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 2 speeds |  |
| 184 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 3 speeds |  |
| 185 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | Analog control |  |
| 186 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 1 speed |  |
| 187 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 2 speeds |  |
| 188 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 3 speeds |  |
| 189 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | Analog control |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 190 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 1 speed |  |
| 191 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 2 speeds |  |
| 192 | 2-pipe | 1-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 3 speeds |  |
| 193 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 194 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 195 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 196 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 197 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | Analog control |  |
| 198 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 1 speed |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 199 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 2 speeds |   |
| 200 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Room sensor (SI3) | 3 speeds |   |
| 201 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | Analog control |   |
| 202 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 1 speed |   |
| 203 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 2 speeds |   |
| 204 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Returning air temperature sensor (SI1) | 3 speeds |   |
| 205 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | Analog control |   |
| 206 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 1 speed |   |
| 207 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 2 speeds |   |
| 208 | 2-pipe | 2-stage heating | 1-stage cooling | Digital control | Temperature from Modbus network | 3 speeds |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 209 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 210 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 211 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 212 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |
| 213 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | Analog control |  |
| 214 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 1 speed |  |
| 215 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 2 speeds |  |
| 216 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Room sensor (SI3) | 3 speeds |  |
| 217 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Returning air temperatu re sensor (SI1) | Analog control |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 218 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 1 speed |   |
| 219 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 2 speeds |   |
| 220 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Returning air temperature sensor (SI1) | 3 speeds |   |
| 221 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | Analog control |   |
| 222 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 1 speed |   |
| 223 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 2 speeds |   |
| 224 | 2-pipe | 2-stage heating | 1-stage cooling | Analog control | Temperature from Modbus network | 3 speeds |   |
| 225 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |   |
| 226 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 227 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |   |
| 228 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |   |
| 229 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | Analog control |   |
| 230 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 1 speed |   |
| 231 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 2 speeds |   |
| 232 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Room sensor (SI3) | 3 speeds |   |
| 233 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Returning air temperatu re sensor (SI1) | Analog control |   |
| 234 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Returning air temperatu re sensor (SI1) | 1 speed |   |
| 235 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Returning air temperatu re sensor (SI1) | 2 speeds |   |
| 236 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Returning air temperatu | 3 speeds |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| | | | | | re sensor (SI1) | | |
| 237 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | Analog control |  |
| 238 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 1 speed |  |
| 239 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 2 speeds |  |
| 240 | 2-pipe | 2-stage heating | 2-stage cooling | Digital control | Temperature from Modbus network | 3 speeds |  |
| 241 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | Analog control |  |
| 242 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 1 speed |  |
| 243 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 2 speeds |  |
| 244 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | iSMA-B-LP/Touch Point/ Control Point/FP room panel | 3 speeds |  |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| 245 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | Analog control |   |
| 246 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 1 speed |   |
| 247 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 2 speeds |   |
| 248 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Room sensor (SI3) | 3 speeds |   |
| 249 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | Analog control |   |
| 250 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 1 speed |   |
| 251 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 2 speeds |   |
| 252 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Returning air temperature sensor (SI1) | 3 speeds |   |
| 253 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | Analog control |   |
| 254 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 1 speed |   |
| 255 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Temperature from | 2 speeds |   |

| DIP Switch | 1 | 2 | 3 | 4 | 5 & 6 | 7 & 8 | |
|---|---|---|---|---|---|---|---|
| | | | | | Modbus network | | |
| 256 | 2-pipe | 2-stage heating | 2-stage cooling | Analog control | Temperature from Modbus network | 3 speeds |  |



*Table 8. All available DIP switch configurations*