OSMA Underfloor Heating

RT-N
Instructions

★ Digital Thermostat / Programmable Room Thermostat (Selectable)

★ Blue backlight

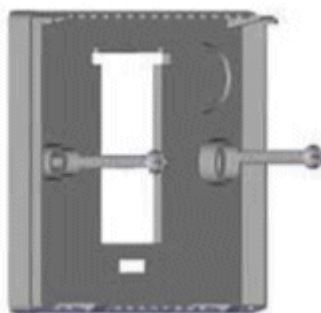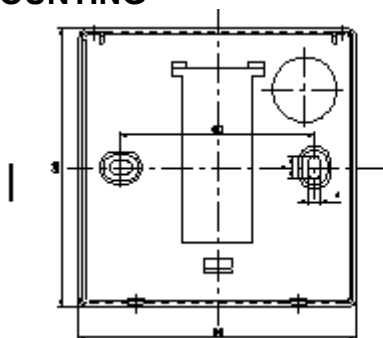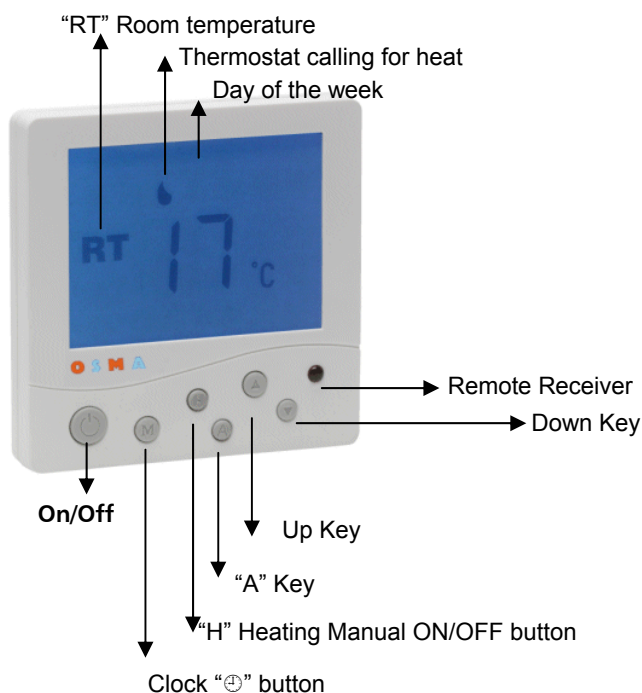★ Network Functionality (Compatible with OSMA network products)

SPECIFICATIONS

Set-point range: 5°C to 35°C

Operating difference: ± 1°C

Switch current rating: < 3A

Sensing element : NTC

Communication: RS485

Display: LCD

Power supply: 12V from Network

Dimensions: 86 × 86 × 13 mm

Housing: ABS Flame Retardant
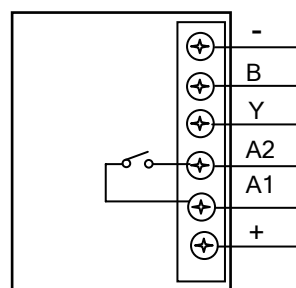
Switching Voltage: Volt Free

MOUNTING

BUTTON DESCRIPTION

"RT" Room temperature

Thermostat calling for heat

Day of the week

Remote Receiver

Down Key

On/Off

Up Key

"A" Key

"H" Heating Manual ON/OFF button

Clock "☉" button

WIRING DIAGRAM

OSMA RT-N

-
B
Y
A2
A1
+

POWER ON/OFF

☞ To turn the RT-N on or off press "⏻"

ENABLE PROGRAMMABLE MODE

☞ With the RT-N powered off, press "A" and down for 5 seconds.

Select 01 for basic thermostat mode

Select 02 for programmable thermostat mode

SETTING THE FROST PROTECTION TEMPERATURE

☞ With the thermostat powered off, press

⊕ and "A" for three seconds. You are now prompted to

enter the required frost temperature setting. This is set to

12°C as a factory default. (Min = 07°C, Max = 17°C)

FROST MODE (THERMOSTAT OFF)

To enable this operation;

☞ With the RT-N turned off.

Press "⊕" for 3 seconds.

Select 01   (00=disabled)

When enabled, the RT-N will maintain the Frost Protection temperature whenever the power has been turned off by use of the "⏻" button.

TEMPERATURE CALIBRATING:

☞ With the RT-N turned off, Press "⊕" and "H" for 3

seconds. The display will show the actual temperature

☞ Press "▲" or "▼" to adjust the temperature to the correct value.

☞ Press "⏻" to turn off. The calibration setting will be stored.

NORMAL OPERATING MODE:

RT = When the RT-N is in the operating mode, RT is displayed and indicates the Room Temperature.

SET = Pressing the UP or DOWN key once will display SET and the current set-point temperature. You are able to increase/decrease the set-point temperature using the UP/DOWN keys. This temperature change is only temporary and will be maintained only until the next programmed setting.

KEYPAD LOCKING FUNCTION

☞ Press "A" and Up for 10 seconds

☞ 00 = disabled   01 = enabled

☞ To lock the keypad, press "A" and Up keys for 10 seconds.

☞ " 🌙 " will be displayed to indicate the keypad is locked

☞ To unlock the keypad, repeat the steps above.

SETTING THE CLOCK

☞ Press "⊕" twice, "⊕" is displayed.

☞ Use the Up/Down key to select the minutes.

☞ Press "H" to accept the minutes setting

☞ Use the Up/Down key to select the hours

☞ Press "H" to accept the hours setting

☞ Use the Up/Down key to select the day of the week.

☞ To store the new settings, press "A"

MANUAL HEATING OVERRIDE (FROST PROTECTION)

☞ To put the PRT-N in to Frost Protection mode,

Press "H".   A frost protection symbol " ❄ " will be shown.

☞ To cancel the Frost Protection mode, press H. The frost

protection symbol " ❄ " will be removed.

The frost protection temperature will be maintained in

this mode. Repeat operation to cancel.

SETTING THE HEATING PROGRAM (Programmable Mode)

☞ Press "⊕" once, "💧" is displayed as well as the

number 1 and "Mo Tu We Th Fr"

This indicates that you are able to program switching time 1 for

the week-day.

☞ Use Up/Down keys to set the required start time.

☞ Press "H" to accept this setting.

☞ Use the Up/Down key to set the required temp.

☞ Press "H" to accept this setting.

☞ Repeat for switching times 2-4 week-day.

☞ After you have programmed times 1-4

for the weekday, you are now able to set the

switching times for weekend "Sa   Su" will be displayed.

☞ Use Up/Down keys to set the required start time.

☞ Press "H" to accept this setting.

☞ Use the Up/Down key to set the required temp.

☞ Repeat for switching times 2-4 for the week-end

COMMUNICATION NUMBER

☞ With the RT -N in standby. Press "⊕" and "H" for 3 seconds.

The display will show "XX" °C

☞ Press "A" to display the station number.

☞ Press "▲" or "▼" to adjust the thermostat comms number

☞ Press "⏻" to turn off, It will be confirmed automatically.

TM1-N COMMUNICATION

☞ When a TM1-N is connected to the network - it will signal to the

RT-N when to go into frost or heat mode.