5. Thermostat Functions

NSB (Night SetBack) Function

NSB Mode depends on the NSB wired connection.

0V = NSB OFF
24V= NSB ON

The NSB signal is activated every 1 second. When the signal is received the setpoint temperature will be set at ±2°C or ±4°C.

Heating and Cooling Selection

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

CO 0V= Heat mode
CO 24V= Cool mode

Cooling Blocked function

Cooling Enabled:
Set the jumper on ON . 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 . The actuator will be closed and the LED will be off.

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.

8. Technical Specification

Model:	HTR24
Voltage:	24 V AC, +-10%, 50/60 Hz
Operating Performance:	24 V: 1,8 W
Temperature setback:	2°C-4°C
Temperature range:	5°C- 30°C
Span:	+/- 0,5°C
Calibration:	Yes, with jumper
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

Warranty

SALUS Controls warrants that this product (HTR24) 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. SALUS Controls 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: .....

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For PDF Installation guide please go to www.salus-manuals.com

Issue Date: Dec 2015
00189

SALUS CONTROLS

Dial Thermostat
Model: HTR24

INSTALLER MANUAL

Contents of the box

Icons used in this manual:

Safety

Important info

Your benefit

Manual Contents:

HTR24 Thermostat

Fixing Screws

1 x Installer Manual

Product Description

Thank you for purchasing the SALUS HTR24 Thermostat. This thermostat is a device that lets you customize the heating and cooling of your home as needed.

The HTR24 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.

Product Compliance & Safety Information

Product Compliance

SALUS Controls hereby declares that the product complies with the essential requirements of the following EC Directives: 2014/30/EU and 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.saluslegal.com.

Safety Information

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

Installation

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 a suitable qualified electrician or other competent person.

1. Mounting the Thermostat

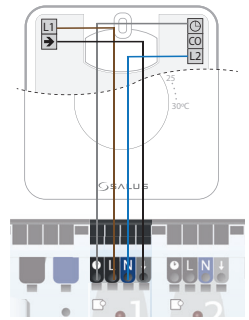
Install the HTR24 dial room thermostat at roughly 1.5m above floor level. It should be mounted in a location where the thermostat is easily accessible and away from direct sunlight. You can mount the thermostat directly on the wall or you can install it on top of a wall-box.

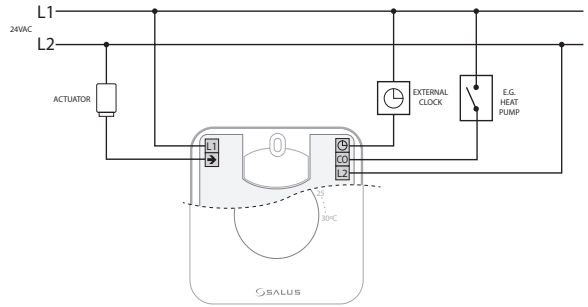
Gently remove front housing and make the wiring connections.

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

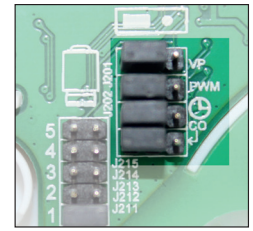
2. Terminal Connection

Note: You can wire the thermostat directly to the KL06 24V Wiring Center (purchased separately).





3. Switching Bridges



Different features of the HTR24 can be switched On or OFF with the jumpers. In order to do this please follow the table below.

HTR 24 Switching Bridges			
Switch	**Feature**	**ON**	**OFF**
VP	Valve protection feature	○●●	●○○
PWM	Pulse-Width-Modulation	○●●	●○○
🕒	NSB Function (2° or 4°)	2°C ○●●	4°C ●○○
CO	Heating/Cooling	Enable ○●●	Disable ●○○

4. Jumpers

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.