8. Setting the Thermostat

Device No	Function	Valves	Definition	Default Value
	5 L + 25/25	0	°C	
d00	Select °C/°F	1	oF	0
		0	PWM	
d01	Heating Control	1	On-Off: 0,5 °C (+_0,25 °C) On-Off: 32,9 °F (+_32,45 °F)	0
		2	On-Off: 1,0 °C (+_0,5 °C) On-Off: 33.8 °C (+_32,9 °F)	
d02	Room temp offset	-3,0°C to +3,0°C -26,6°F to +37,4°F	Offset room temp measuring error (in 0,5 °C / 32,9 °F)	0.0°C / 32 °F
d05	Cooling Control	1	On-Off: 0,5 °C (+_0,25 °C) On-Off: 32,9 ° F(+_32,45 °F)	2
003	Cooming Control	2	On-Off: 1,0 °C (+_0,5 °C) On-Off: 33,8 °C (+_32,9 °F)	
d07	Valve Protection	0	Disable	1
au/	valve Protection	1	Enable	'
d08	Frost Setpoint	5.0 - 17.0 °C 41 - 62.6 °F		5.0°C / 41 °F
d12	Max. Heating Setpoint	5.0 - 35.0 °C 41- 95 °F		35℃ / 95 ℉
d13	Min. Cooling Setpoint	5.0 - 40.0 °C 41 - 104 °F		5.0°C / 41 °F
d18	Heating/Cooling Mode	0	No Connection	0
410	r tading/cooling/vious	1	Connection	
d19	Cooling Blocked	0	Cooling Allowed	0
1 419	Cooming blocked	1	Cooling Disabled	
d20	Selecting the number of actuators	0	1 to 5 actuators loading	0

9. Setting the Thermostat



Setting the hysteresis

You can set the hysteresis by entering the Installer Mode, accessing d01 and after that selecting the desired value (PWM / 0.5°C or 32.9°F / 1.0°C or 33.8°F). If your device controls the UFH we recommend to use the PWM algorithm.

Heating and Cooling Selection

This mode will be indicated by the flashing icons Press or to change between modes.

The CO terminal needs to be connected using the same phase as the power supply.

After that the heating and cooling functions will be done automatically In Installer Mode, d18 has to be set on 1 (default is 0), when CO wire is connected.

10. Setting the Thermostat

Cooling blocked

When the thermostat is set on Cooling Disabled (d19-->1) it will block the cooling function for single rooms until the device receives the heating command. During the periods of Cooling Blocked no special indicator will be displayed on the LCD screen. Cooling mode indicator will also be turned off.

When room temperature is over the limit of 36°C(96.8°F), all heating outputs will be turned off regardless of the control pattern and delay timers. When room temperature is under the limit of 4°C(39.2°F), all cooling outputs will be turned off regardless of the control pattern and delay timers.

11. Factory Reset



together for 3 seconds





Select P47 if you want to Press 💸 to confirm reset to factory settings.





lote: In order to can hold down 🙆 key. The display wil

12. Heating/Cooling Mode





Heating Mode

Cooling Mode

Temperature Mode	Heating	Cooling	
Sunny	20.0 °C / 68.0 °F	20.0 °C / 68.0 °F	
Moon	17.0 °C / 62.6 °F	26.0 °C / 78.8 °F	
Frost (heat system)	5.0 °C / 41 °F		

13. Temperature Offset (TemperatureCalibration)







enter the Settings Mode.

Press 👽 or 🛆 in order to set the Temperature Offset.





The Temperature Offset can be set at any value between -3°C(26.6°F) and +3°C(37.4°F). Press OK to confirm.

14. Technical Data

Model:	AHTR3024
Voltage	24 VAC, +/-10 %, 50/60 Hz
Operating performance	24 V, 18 W
Temperature setback	Adjustable
Temperature range	5°C − 35°C (41°F - 95°F)
Span	+/-0,5°C (32,9°F) OR +/-0,25°C (32,45°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Ambient temperature	0 °C up to 45 °C(32°F up to 113°F)
Degree of protection	IP 30
Conformity according to	FCC and IC
Housing material	PC, V2
Color	RAL 9010 pure white
Connection	Screw terminal
Weight	125 g net / 170 g gross (4.40oz/5.99oz)
Puls-wide-modulation (PWM)	Yes
Profile Modes	3 (Sun, Moon, Automatic)
Heating and Cooling	Yes, automatically Change Over on the Wiring Centre
Parameter adjustment	Yes, in Installer Mode
Dimensions	85mm*85mm*25mm(3.34in*3.34in*0.98in)

Warranty

SALUS NA warrants that this product (AHTR3024) 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 NA 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:	
	J



www.salusna.com For PDF Installation guide please go to:





moo.ansalusa.com



Digital Thermostats Model: AHTR3024



INSTALLER MANUAL

Contents of the box

Manual Contents:

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





AHTR3024 Thermostat 1 x Installer Manual



Fixing Screws

Icons used in this manual:



Warranty







Product Description

Thank you for purchasing the SALUS AHTR3024 Thermostat. This thermostat is a device that lets you customise the heating and cooling of your home as needed.

The AHTR3024 device from SALUS Controls is a stylish and accurate digital room thermostat that is fitted with a large easy to read LCD screen and one touch buttons. You can now simply adjust your home temperature as desired in order to create a comfortable home environment.

We hope you enjoy our product.

Product Compliance & Safety Information

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Safety Information

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: For changing the temperature display from ℃ to ℉, go to <u>Installer Mode Menu</u> and change d00 to

1. Mounting the Thermostat

Install the AHTR3024 digital room thermostat at roughly 1.5m or 4.92ft 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.



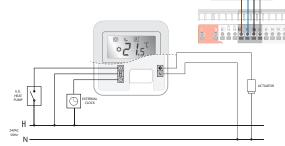
Wall mounting

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

2. Terminal Connection



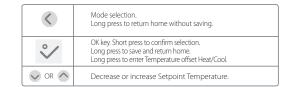
Note: You can wire the thermostat directly to the AKL08 wiring centre or to an actuator (purchased separatly).



3. Thermostat Icons

	BOX means to select mode. e.g. ☑ means Hi temp is selected ☆ means the Hi temp is not selected.
*	Sunny: Hi comfortable temperature
<u>(</u>	Moon: Low comfortable temperature
Α	Indicates AUTO ON or AUTO OFF
*	Frost Protection Indicator: Frost protection is active, not available in cooling mode.
€	Temporary override indicator: If the set temperature is changed when in program mode, the hand will appear until the next programs starting time.
9	Heat Mode indicator: Indicates heating is running
₿	Cood Mode indicator: The icon is flashing when cooling mode active
88 .š	Temperature indicator Display the room temperature Display the set temp

4. Button Functions







In Auto Mode by tapping the or key you can view the Setpoint Temperature.



In Auto Mode by holding the or kev you will access Manual Override

Note: In Auto Mode the change in Manual Override Mode is temporary. This is indicated by the (con. When used as a stand alone, the change is permanent.

In Sunny/ Moon/ Frost

Mode the change will be

permanent



After selecting the temperature press 💸 and the @will appear.

7. Installer Mode

by moving the box on the (icon.

6. Night Setback Function (NSB)

NSB Mode depends on the NSB wired connection.

This function will be activated only when the device is running in Auto Mode.

If the thermostat receives a NSB signal then it will switch to A-C If the NSB is turned

off, the unit will function in A and 🔆 . You can manually set the thermostat on NSB

Note: The NSB function will be available only when you also have another device

0V=NSB OFF

24V=NSB ON



Press the indicated keys together for 3 seconds.



enter Installer Mode



5. Frost Protection

In Sunny/ Moon/ Frost

or Akey you will access

Manual Override Mode.

Mode by tapping the V



or on the Frost will enter in Frost Mode



Press the or key to set the temperature.

Note: During the set-up, press \(\) at any time to return to the previous screen or



selected again the

permanent override

select a temperature

or and then confirm by pressing 💸

You have reached the

Installer Mode. Select

your options by using 😞

Note: This function allows you to customise your thermostat as you to ju) to the next one d0 > d1 > then you can choose your oreferences by using 😞 or 🛆

Note: All electrical installation work should be carried out by a suitable qualified electrician or other competent person.

Move the box by tapping Mode Indicator The device

long press (to return to Home display



In Frost Mode you can between 5°-17°C or 41-62.6°F.