Sinopé TH1400000 Installation Guide Mon-Programmable Low Voltage Thermostat (24 Vac)



Depending on the heating system, insert each wire into its terminal and screw firmly. [See connection layouts outlined in the following pages.]



Power up the thermostat.

6



AUXILIARY OUTPUT

The thermostat provides an auxiliary heating output that can act as a second stage of heating when controlling ambient temperature.

If the room temperature is too far from the setpoint or the main stage of heating has difficulties raising the temperature, the auxiliary output activates the secondary heating source to reach the set temperature.

Both outputs can control different types of heating load and can be configured in the user settings.

WIRING LAYOUT

Electric baseboard



Electric floor heating with electric baseboard on the 2nd heating stage



Hot water valve



CONNECTION OF THE FLOOR SENSOR (OPTIONAL)

Only for control applications in floor (F) mode or with floor limit.



Increasing or lowering the temperature To adjust the temperature, press ↓ or ↑ . The requested temperature will blink to confirm the new setpoint.

INSTALL YOUR THERMOSTAT



When installing your floor heating system: add a second sensor in the floor and store the tip in the thermostat housing. This additional sensor can be plugged in and used as a replacement without haltering your floor heating system.



PARAMETERS THAT CAN BE CONTROLLED FROM THE DEVICE:

PARAMETERS THAT CAN BE CONTROLLED FROM THE DEVICE (continued):

Lower the setpoint to its minimum and hold the \checkmark button for 10 seconds to access the menu.

Press the \checkmark or the \uparrow button to change the setting.

Press the \checkmark and the \uparrow buttons simultaneously to save and go to the next parameter. Continue to press until the end of the list to exit the menu.



#	Name	Parameters & settings	Display
1	Display	Temperature format °C or °F – [Default: °F]	or
2	Control	Control mode of thermostat A [Air], F [Floor] – [Default: A]	8
3	Setpoint Min	Minimum setpoint 41 °F to 97 °F – (Default: 41 °F)	41
4	Setpoint Max	Maximum setpoint 41 °F to 97 °F – (Default: 97°F)	97
5	Limit Floor Max	Maximum floor temperature limit (Only visible in A mode) 45 °F to 97 °F or OFF – (Default: OFF)	OF F
6	FLR Min Limit	Minimum floor temperature limit [Only visible in A mode] 41 °F to 93 °F or OFF [default: OFF]	OF f
7	Air Max Limit	Maximum ambient temperature limit [Only visible in F mode] 41 °F to 97 °F or OFF [default: OFF]	OF F
8	1st Stage Cyc	Cycle lenght / Main output 15 sec, 5 min, 10 min, 15 min, 20 min, 25 min, 30 min – (Default: 15 min)	IS

#	Name	Parameters & settings	Display		
9	Aux 2nd Stage Cyc	Cycle lenght / Auxiliary output OFF, 15 sec, 5 min, 10 min, 15 min, 20 min, 25 min, 30 min – [Default: OFF]	OF F		
10	Backlight	Backlight control ON, OFF or BED – [Default: ON] ON [backlight always active, will dim according to ambient light] OFF [will only turn on when a button is pressed] BED [bedroom mode - backlight will dim according to ambient light and will turn OFF below 20% of luminosity]	ОП		
11	Sensor	Floor sensor 10K or 12K – (Default: 10K)	10		
12	PE	Circulator pump's anti-seizure ON or OFF (Default: OFF)	OF f		

PARAMETERS THAT CAN BE CONTROLLED FROM THE DEVICE (CONTINUED):

2) The thermostat features two temperature control modes:

A mode (default): Regulation of ambient temperature with the possibility to limit floor temperature through an external temperature sensor.

F mode: Regulation of floor temperature through an external temperature sensor with the possibility to limit ambient temperature.

5) Maximum floor temperature limit (A mode)

The thermostat limits floor heating to the set temperature to ensure it does not exceed the selected limit. This parameter is ideal for protecting engineered wood floors. (Verify with your flooring manufacturer to determine heat limit.)

This parameter can only be used when a floor sensor is connected to the thermostat.

6) Minimum floor temperature limit (A mode)

The thermostat limits the minimum temperature of the floor in order to keep it at a comfortable temperature.

This parameter can only be used when a floor sensor is connected to the thermostat.

7) Maximum limit of the ambient temperature (F mode)

Thermostat limits floor heating so as not to exceed the set ambient temperature limit.

8) et 9) Main and auxiliary output cycle length

The thermostat has a main and an auxiliary output. Select the appropriate cycle length based on your heating system. The selection of an inappropriate cycle length may damage your unit.

Minimum cycle length	0.15	5	10	15	20	25	30
Convector or baseboard heater activated by electronic relay [SSR]	×						
Fan-forced convector activated by electronic relay [SSR]		×	×				
Fan-forced convector or baseboard heater activated by mechanical relay			×	×			
Hydronic heating pump system				×	×	×	×
Furnace				×	×	×	×

12) Circulator pump's anti-seizure

When the thermostat is not heating for an extended period, this parameter will activate the main output during 1 minute every 24 hours to ensure the hydronic system pump does not seize.

OFF MODE

To put the thermostat in OFF mode, hold the buttons \checkmark and \Uparrow for 10 seconds.

To exit the OFF mode, hold the buttons \checkmark and \Uparrow for 10 seconds or raise/lower the setpoint.



TECHNICAL SPECIFICATIONS

TROUBLESHOOTING GUIDE

What should I do if the E1F code appears on my thermostat's display?

The EIF code means that the thermostat is in "Floor" mode and there is no connected

Operating voltage: 24 Vac

Maximum load: 1 Amp Setpoint range: 5 °C to 36 °C [41 °F to 97 °F] Display range: 0 °C to 70 °C [32 °F to 99 °F] Resolution: ± 0,5 °C [± 1 °F] Storage: -20 °C to 50 °C [-4 °F to 122 °F] Auxiliary output: 24 Vac / Vdc / 0.1 A

sensor. If your thermostat is not intended to control a heated floor, change the thermostat's control mode for the "A mode".

Compatible with:

- Baseboard heater activated by mechanical relay or electonic relay (SSR)
- Fan-forced convector activated by mechanical relay or electronic relay (SSR)
- Electric floor heating (activated by a relay)
- Hydronic floor heating
- Hydronic heating system
- Furnace (without fan control)

3-year limited warranty

SINOPE TECHNOLOGIES INC. warrants the components of their products against defects in material and workmanship for a 3-year period from the date of purchase, under normal use and service, when proof of purchase of such is provided to the manufacturer. This warranty does not cover any transportation costs that may be incurred by the consumer. Nor does it cover a product that has been improperly installed, misused or accidentally damaged.

installed, misused or accidentally damaged. The obligation of SINOPE TECHNOLOGIES INC., under the terms of this warranty, will be to supply a new unit and this releases the manufacturer from paying the installation costs or other secondary charges linked to replacing the unit or the components.

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