



SF300 Digital thermostat

Operating instructions

Read this manual carefully and keep it with other warranty documents. Connection must be carried out by a qualified installer in accordance with local regulations. Before installing or disassembling the thermostat, always switch off the electricity in the meter cupboard. This thermostat can be installed in a single flush-mounting box 50 mm deep, according to standard DIN formats.

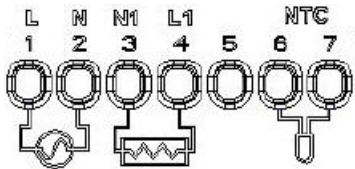


1. Technical details

Power: 90-230Vac 50/60Hz	Insulating condition:
Display accuracy: 0.5°C	Normal environment
Probe sensor: NTC(10k)1%	Running program:
Contact capacity: 16A	Set per 1 week as a cycle
Limit temp. range: 1~70°C	Output: Switch relay
Range of temp. adjustment: 5~35°C	Installation: recessed (in the wall)
Range of temp. display: 1~70°C	Size: 86x86x27mm

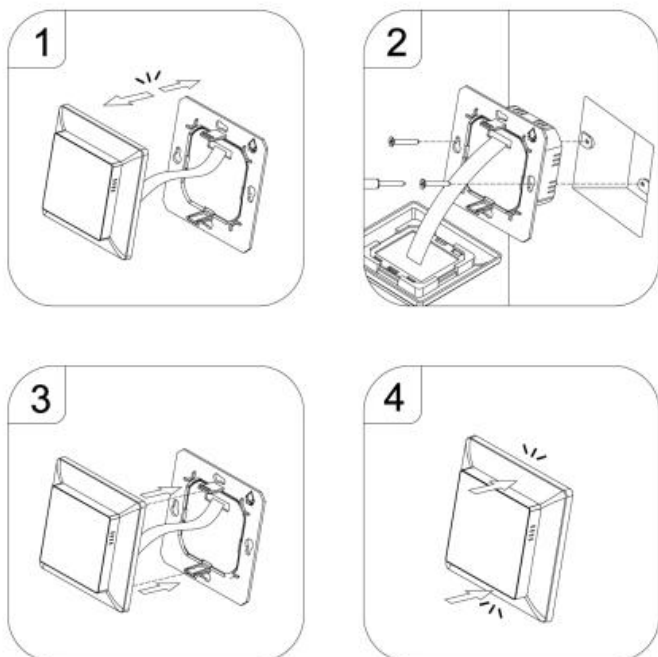
2. Wiring diagram

- 1 Power supply (Line)
- 2 Power supply (Neutral)
- 3 Heating cable wire 1*
- 4 Heating cable wire 2*
- 5 N/A
- 6-7 Floor sensor connection

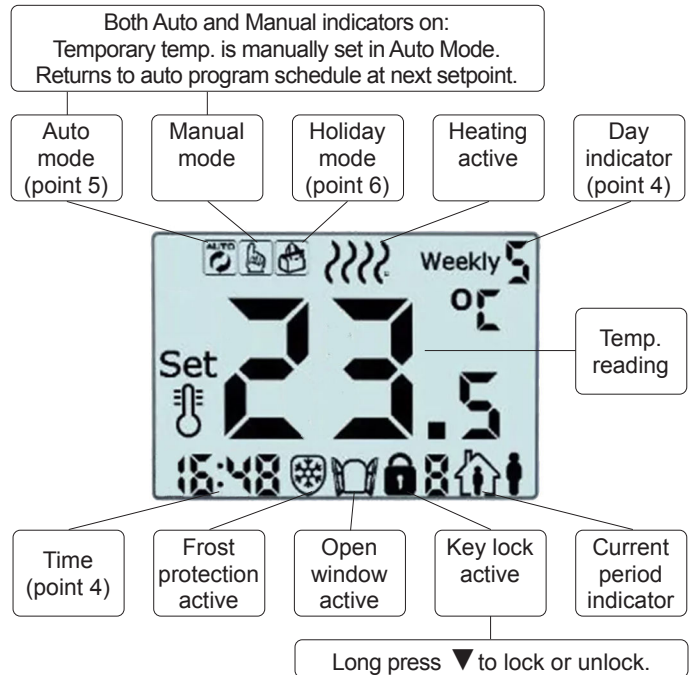


* Order Heating wire 1 and 2 does not apply.

EARTH: Connect the earth of the heating cable and the earth of the power supply outside the thermostat.



3. Display icon explanation



4. Time setting

- (Thermostat on) Long press to enter options
- Press , choose and press to enter
- Press or to set minutes
- Press to confirm and enter hour setting
- Press or to set hours
- Press to confirm
- Press or to set week day (Monday = 1, Sunday = 7)
- Press to confirm

5. Choose mode

Press to switch between **Auto Mode** or **Manual mode**.

6. ATTENTION: Change Sensor first!

Go to point 10b (Advanced settings B) and change sensor input to **N2** before programming.

7. Programming (Auto Mode)

(Thermostat on) Long press to enter options
press , choose and then to enter programming
Press to choose hours, min. and temp. (with or and)

There are 3 periods (6 setpoints) per day. See standard schedule for reference:

Wake up (On)	Away (Off)	Home (On)	Away (Off)	Home (On)	Sleep (Off)
Setpoint 1	Setpoint 2	Setpoint 3	Setpoint 4	Setpoint 5	Setpoint 6
06:00 20°C	08:00 15°C	11:30 20°C	13:30 15°C	17:00 20°C	22:00 15°C

8. Holiday Mode

- (Thermostat on) Long press to enter options
- Press , choose and press to enter
- Press or to set days
- Press to confirm and enter temperature setting
- Press or to set temperature
- Press to confirm

9. Sensor error

When an "E1" or "E2" code is shown the sensor is wrongly connected or broken. The thermostat will stop heating until the sensor is connected correctly or replaced.

10a. Advanced settings A

WARNING: Changing advanced settings may cause undesired results.
Please consult your installer before entering this menu!

Press the on/off button once, long press  to enter Advanced settings menu A. Press  to choose between A1 to AE. Press  or  to adjust.

No.	Item	Parameters	Default
A1	Measured temp. calibration	-9°C to +9°C	-1 °C
A2	Differential	0.5°C to 2.5°C	1°C
A3	Key lock	0: Half lock 1: Full lock	0
A4	Power with memory function	0: Power with memory function 1: Shutdown power after power off 2: Shutdown power after power on	0
A5	Backlight time	5 to 30 seconds	10 sec
A6	Programmable	0: 5+2 (Week 1-5 and weekend 6-7) 1: 6+1 (Week 1-6 and sunday 7) 2: 7 (Week 1-7)	0
A7	Lowest temp. setting	1 - 10°C	5°C
A8	Highest temp.setting	20-70°C	35°C
A9	Low temp.protection	1: 1°C - 10°C Function off: > 10°C Display (-----)	5°C
AA	High temp.protection	1: 35°C-70°C 2: Function off: < 35°C Display (-----)	45°C
AB	High temp. protection differential	1-9	2
AC	Running temp. of open window function	1: 10 - 20°C, 2: Function off: < 10°C Display (-----)	1
AD	Running time of open window function	10 - 20 min	10
AE	Reset to factory settings	Long press  until display goes blank	-

10b. Advanced settings B

Press the on/off button once, long press  to enter Advanced settings menu B. Press  to choose between BN to BO. Press  or  to adjust.

No.	Item	Parameters	Default
BN	Options of sensor	N1 : Built-In Room sensor N2: Floor sensor N3: Built-In Room sensor with floor sensor as limiter	N1 <i>(Change to N2 when using floorsensor with underfloor heating.)</i>
BC	Descaling	0: Disable descaling function 1: Enable descaling function	0
Bo	Product information	Can't be changed	-

Return difference:

The room sensor has a max temperature of 45 degrees as a factory default. When the max temperature for the room sensor reaches 45 degrees and goes above this temperature, then the underfloor heating will switch off and an audible alarm will sound, the alarm will not turn off until the room sensor goes below 43 degrees.

Sensor Error Codes:

When the error code “E1” shows up on the controller it indicates a room sensor failure or if the “E2” error code shows up on the controller it indicates a floor sensor failure. The thermostat will not heat until the error code is fixed.

Warranty:

We offer a 2-year warranty from date of purchase of the thermostat.