# SK90...Touch Screen Programming Thermostat

Weekly circulation digital programming thermostat with LCD touch screen, which has 6-event everyday. Manual mode and programme mode could be selected. The thermostat is recommended for control of electric heating devices or on/off valve actuator used in hydronic floor heating.

### Selection Table:

Model	Current	Application		
SK90.13	3A	Built-in&floor sensor,floor limit sensor weekly programme		
SK90.23	3A	Built-in&floor sensor,floor limit sensor weekly programme,a potential-free output		
SK90	16A	Built-in&floor sensor,floor limit sensor weekly programme		

#### Parameter:

Voltage:220V/230V

Power comsuption:2W

Setting range:5 $\sim$ 90 °C (can adjust to 35-90 °C ) Limitation setting:5...60 °C

(Factory setting:35  $^\circ\!\!\!\!\mathrm{C}$  )

Switch differential:  $0.5-10^\circ$ Cadjustable

factory setting1℃

Ambient temperature:-5~50°C

Protective houseing:IP20

Housing material: anti-flammable PC

### User operation:

1) On/Off." 也 "

2) At clock-controlled programme mode, press"  $\blacktriangle$  "or"  $\blacktriangledown$  " enter to temporary control.

3) UP" ▲ ",DOWN" ▼ "to adjust the temperature value.

4) Press clock "⊕"key for 5 seconds,then enter to clock set, choose modified item by pressing clock" ⊕",press UP/DOWN"▲▼"to modify the date and clock,then switch off

to quit.

5) Press menu"  $\mbox{$\square$}$  "to choose manual mode or programme mode.

6) Set temperature and clock display alternately,room temperature can be read out directly.

7) Press both "▲ "" ▼ "for five seconds to engage/disengage key-lock function key-lock shows" <sup>(a)</sup> "

("  $\hat{\mathbf{D}}$  "this symbol dispeared that shows unlock)

8) Adaptive Function

Select the settings of the advanced setting12. Select "01", adaptive function will be "ON". With this feature the room will already have reached the setpoint temperatureat the beginning of a scheduled event. After just a few days, the adaptive function will have automatically calculated how much earlier the heating must be turned on to achieve this. 9) Open Window

Select the settings of the advanced setting 13. Select "01", open window function will be "ON". This option allows you to enable the "Open Window" function. The thermostat can detect an open window by registering a rapid drop with 3 °C. With the function enabled, the thermostatshuts off the heating for 30 minutes if an open window is detected.

### Advanced setting(qualified person preferred):

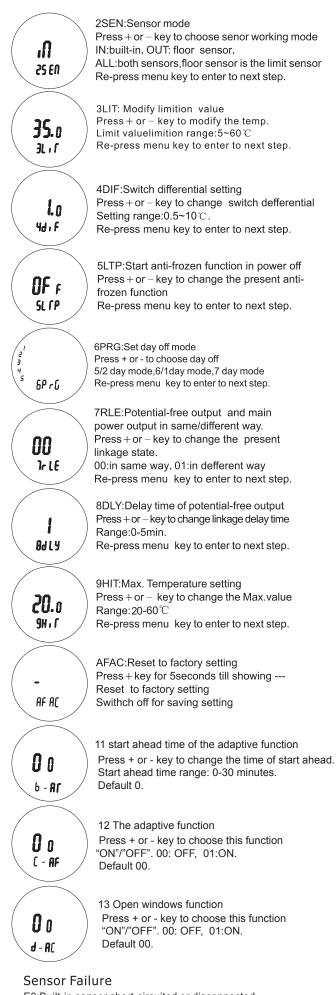
Usually finished at mounting thermostat.

 $\operatorname{Press}\widehat{\square}$  key simultaneously press power on key when in power off.



1ADJ:Temperature calibration

Press + or - key to adjust present checked value, adjustable scale:9.9 °C. Re-press menu key to enter to next step.



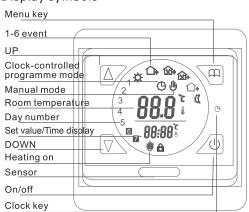
E0:Built-in sensor short-circuited or disconnected. E1:Exernal sensor short-circuited or desconnected. When shows E0/E1 error,thermostat must be checked till the error is eliminated

# INSTRUCTIONS

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#### Display symbols



#### Function:

- 🖖 Manual mode
- Clock-controlled
- ☆ Return(am),event 3
   ☆ Leave(pm),event 4
- יי programme mode
  - Heating on
- ☆ Return(pm), event 5
  ( Sleep, event 6
- -☆- Wake-up,event 1
- Leave(am),event 2

### Programming:

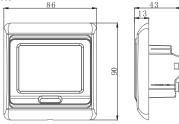
Key	Event		Symbol	Time	Modify	Temp.	Modify
	Day 1-5	1	<b>\X</b>	06: 00	<b>▲</b> ▼ Event	<b>20</b> ℃	▲ ▼ Temp.
		2	ث	08: 00		<b>15</b> ℃	
		3	<b>&amp;</b>	11: 30		<b>15</b> ℃	
		4	<u>ک</u>	12: 30		<b>15</b> ℃	
(m		5	<b>∆</b> ŧ	17: 00	Time	<b>22</b> ℃	lemp.
		6	۵	22: 00		<b>15</b> ℃	
	Day	1	<b>\X</b>	08: 00		<b>22</b> ℃	1
	6-7	2	۵	23: 00		<b>15</b> ℃	1

## Press Menu key for 5 seconds to start programming

#### Note:

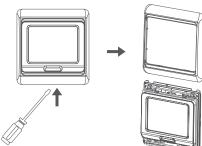
1) The pre-programmed setpoint( $15^{\circ}$ C) for event 3&4 is the same as event 2,please reset it according to your individual requirement. 2)Symbol "OFF" will be displayed if the setpoint reaches the minimum set value and the thermostat is switch off in this event.

#### Dimension:mm

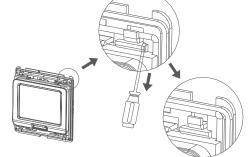


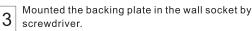
#### Mounting steps:

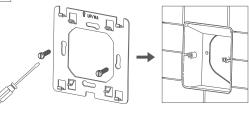
Release the front cover by insertinga screwdrive into bottom crack.



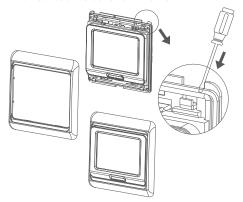








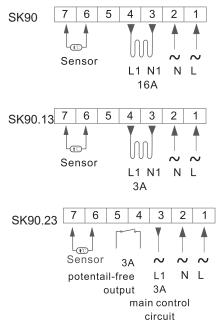
4 After connect wires(see right diagram), the themostat mounte on the backing plate and remounted the cover and frame.



#### Connecting Diagram

#### Attention:

The thermostat which connect the electric heating device is apply to full load(3200W) heating cable in 2500m height above sea level, and the rated power of external load should be less than or equal to 80% rated power thermostat when in the 2500m to 4200m height.



# HVAC CONTROLS PRODUCTS