

UTR 91 Touch Screen Weekly Programming Heating Thermostat

Weekly programming series LCD digital heating thermostat is weekly circulation, this heating room thermostat can let you set 6 periods with different setted temperature, also you can select manual mode or periods programming control mode. It is used for controlling electrical heating equipments and electric control valve in water-based heating system.

Model No.:

Mode No.	Current	Control Method
91.713	3A	room and floor sensor, temperature control and limitation, weekly programming
91.723	3A	room and floor sensor, temperature control and limitation, weekly programming, potential free output
91.716	16A	room and floor sensor, temperature control and limitation, weekly programming










Technical Data

- > voltage: see products
- > power consumption: 2W
- > setting range: 5...90°C (upper limitation from 35°C-90°C adjustable)
- > limitation range: 5...60°C (factory setting 35°C)
- > switching differential: 0.5-10°C adjustable, factory setting $\pm 1^\circ\text{C}$
- > ambient temperature: -5~50°C
- > protective housing: IP20
- > housing material: anti-flammable PC

User's Daily Operation











- 1) on/off "☺", switch on or switch off
- 2) press the "▲" or "▼" key to enter into temporary control under programming control mode
- 3) press the "▲" or "▼" key to adjust temperature setted value
- 4) press both the "☺" key for 5 seconds to adjust current time, press the "☺" key to select required object, press the "▲▼" key to adjust day and time, then switch off thermostat for confirmation
- 5) press the "☺" key to select manual mode or programming control mode
- 6) setted temperature and clock are displayed alternatively, measuring temperature is read directly
- 7) lock and unlock, press both "▲" and "▼" for 5 seconds display "🔒" means lock ("🔒" disappear means unlock)

Function and Display Explanation


- | | | | |
|---|--------------------------------|---|-----------------------|
|  | manual control mode | | |
|  | periods programing control mod |  | return (am), period 3 |
|  | heating on |  | leave (pm), period 4 |
|  | wake up, period 1 |  | return (pm), period 5 |
|  | leave (am), period 2 |  | sleep period 6 |

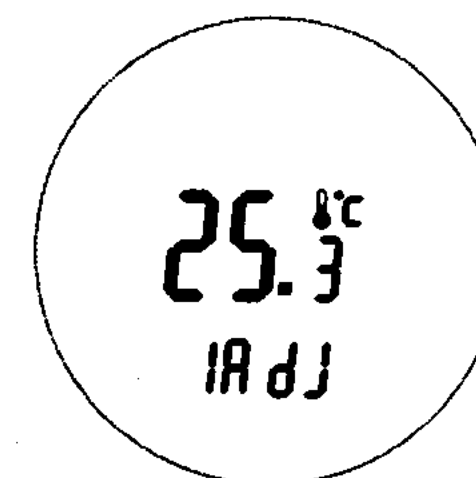
Periods Programming

press the menu key for 5 seconds to begin programming

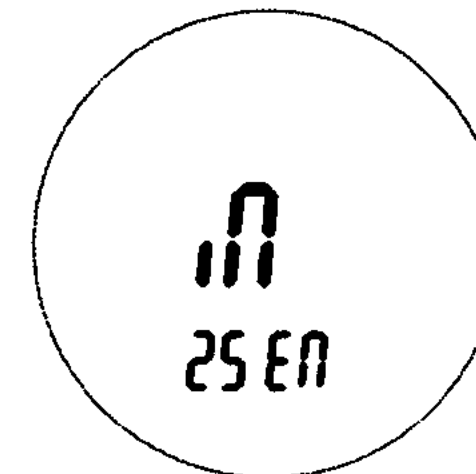
Item	Period	period symbol	default time	adjust	default temperature	adjust	
 	working day	1		06: 00	▲ ▼ adjust period time	20°C	▲ ▼ adjust setted temperature
		2		08: 00		15°C	
		3		11: 30		15°C	
		4		12: 30		15°C	
		5		17: 00		22°C	
		6		22: 00		15°C	
	holiday	1		08: 00	22°C		
		2		23: 00	15°C		

Advanced Setting

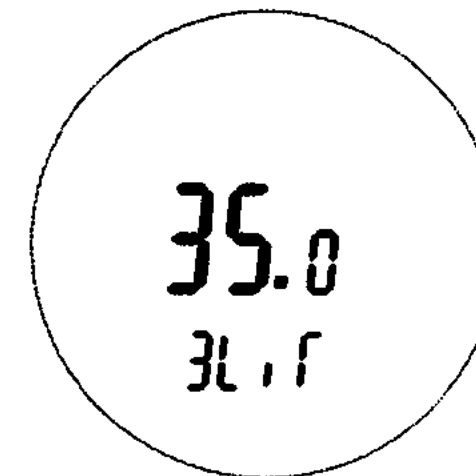
technical parameters are operated by professional engineers and technicians press the  key simultaneously switching on the thermostat to enter into the advanced setting mode (when the thermostat is switched off)



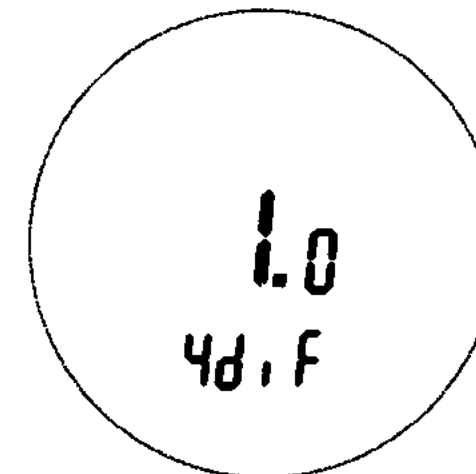
1ADJ measured temperature display and adjustment
press the ▲ key or ▼ key to adjust current measured temperature value adjustable range: ± 9.9°C then press the menu key to enter into next advanced setting



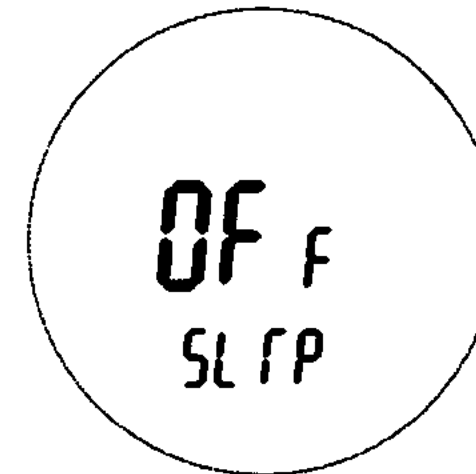
2SEN sensor selection
press the ▲ key or ▼ key to select sensor working mode IN is internal sensor, OUT is external sensor, ALL is both sensors, external sensor is limit sensor then press the menu key to enter into next advanced setting



3LIT adjust limitation temperature value
press the ▲ key or ▼ key to adjust limitation temperature value limitation range 5~60°C then press the menu key to enter into next advanced setting

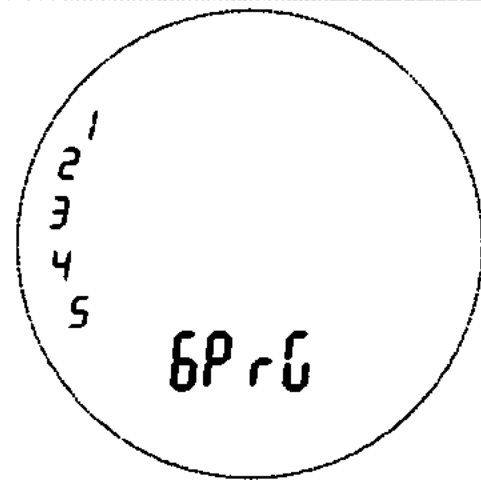


4DIF switching differential (band) setting
press the ▲ key or ▼ key to adjust switching differential setting range 0.5~10°C then press the menu key to enter into next advanced setting

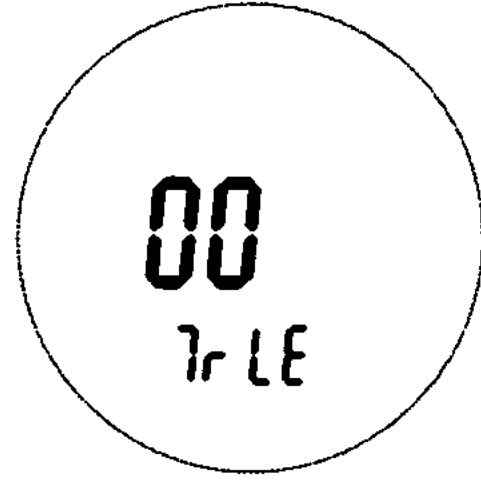


5LTP anti-freezing function on/off under switch off mode
press the ▲ key or ▼ key to change anti-freezing function status then press the menu key to enter into next advanced setting

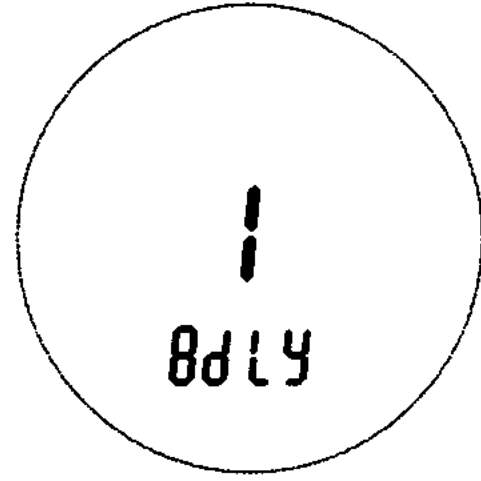
Installation Manual



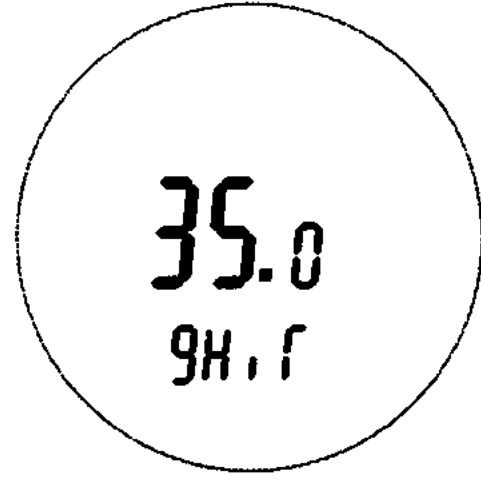
6PRG holiday selection and close weekly programming
 press the ▲ key or ▼ key to selection holiday status
 2 days, 1 day, 0 day and closing mode
 then press the menu key to enter into next advanced setting



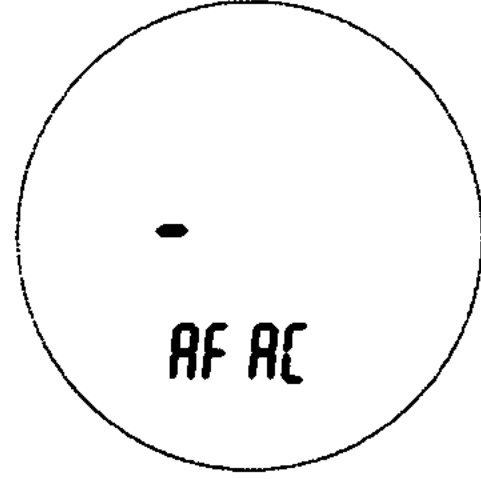
7RLE potential-free output and main output
 synchronous/asynchronous direction
 press the ▲ key or ▼ key to change current output
 status 00 is synchronous , 01 is asynchronous
 02: in Primary and secondary reverse.03:in
 Main and auxiliary reverse,do not turn off and
 antifreeze,ti stop output. then press the menu
 key to enter into next advanced setting



8DLY potential free time-lapse output time
 press the ▲ key or ▼ key to change output time
 range from 0 to 5 minutes
 then press the menu key to enter into next
 advanced setting



9HIT maximum temperature setting value
 press the ▲ key or ▼ key to adjust maximum
 temperature setting value from 35 to 90
 then press the menu key to enter into next
 advanced setting



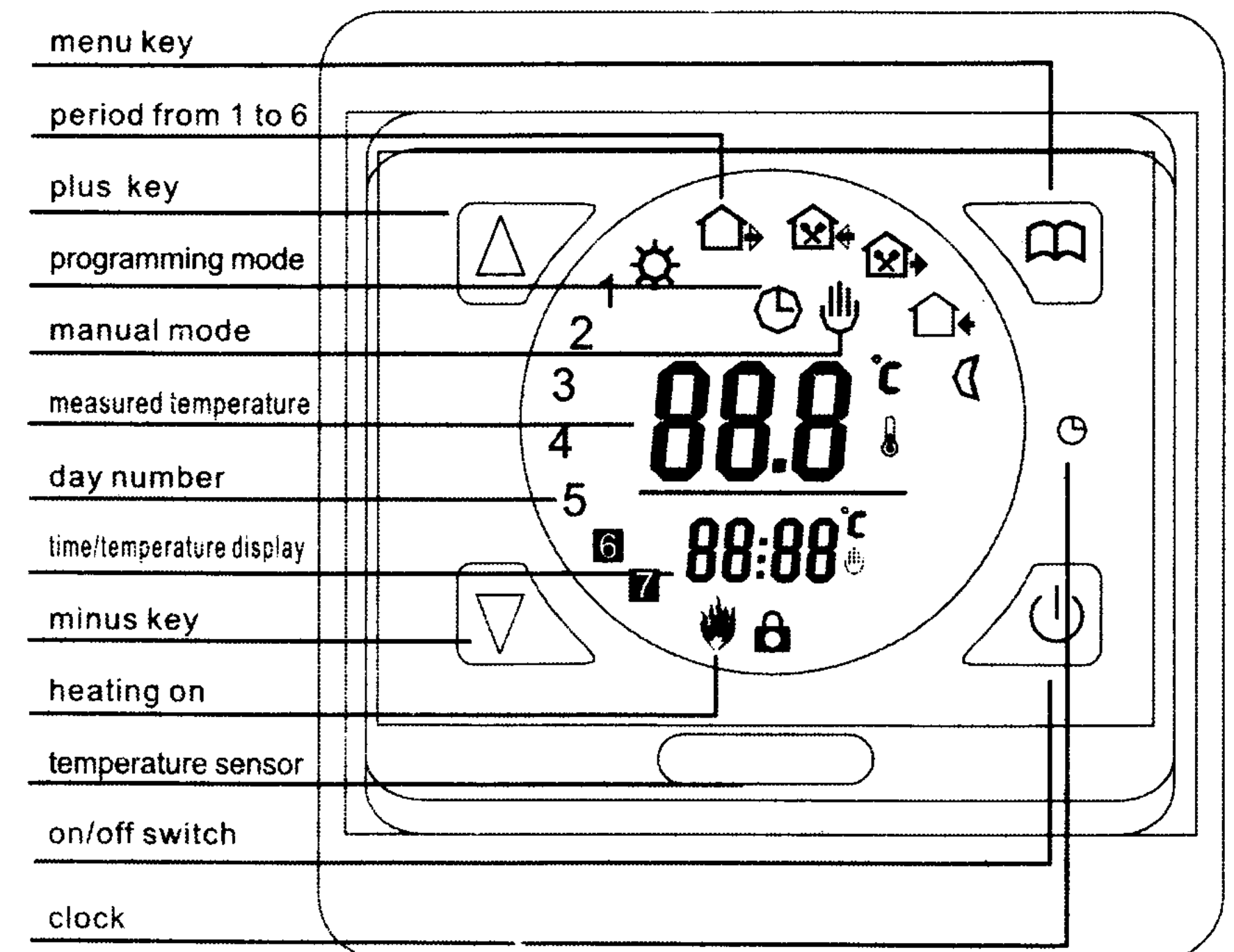
AFAC reset to factory setting
 press the ▲ key for 5 seconds till --- displayed
 to recovery to factory setting then press the menu
 key to enter into the 1st advanced setting item
 press the switch off key to exit and save the
 advanced setting

UTR 91 Touch Screen Weekly Programming Heating Thermostat

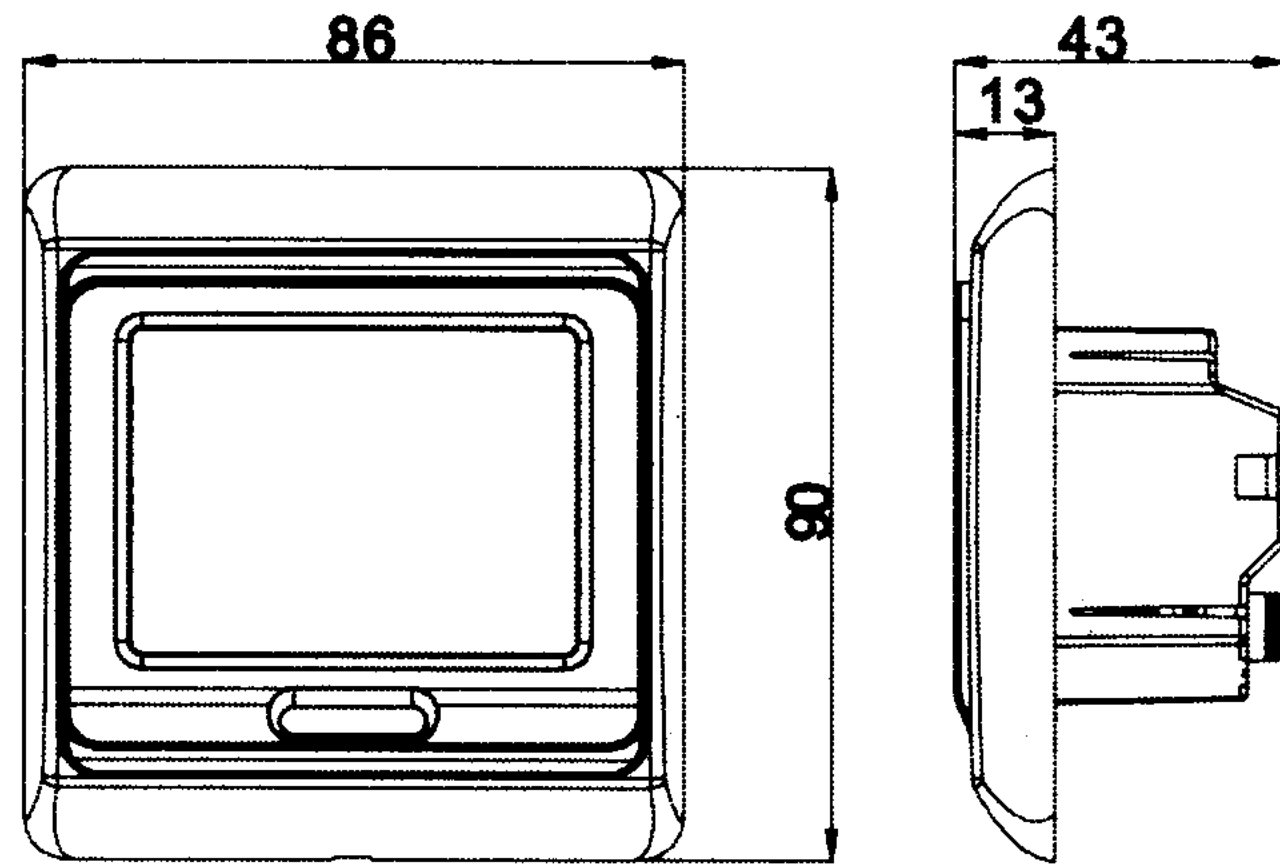
Sensor Error Indicator

please select the right working mode of internal, external
 sensor, LCD will display Er0 or Er1 if you select a wrong mode or
 sensor is failure(damaged). Er0 means there is no internal
 sensor or internal sensor is failure, Er1 means there is no
 external sensor or external sensor is failure. thermostat must be
 checked till the fault is eliminated

Function and display explanation

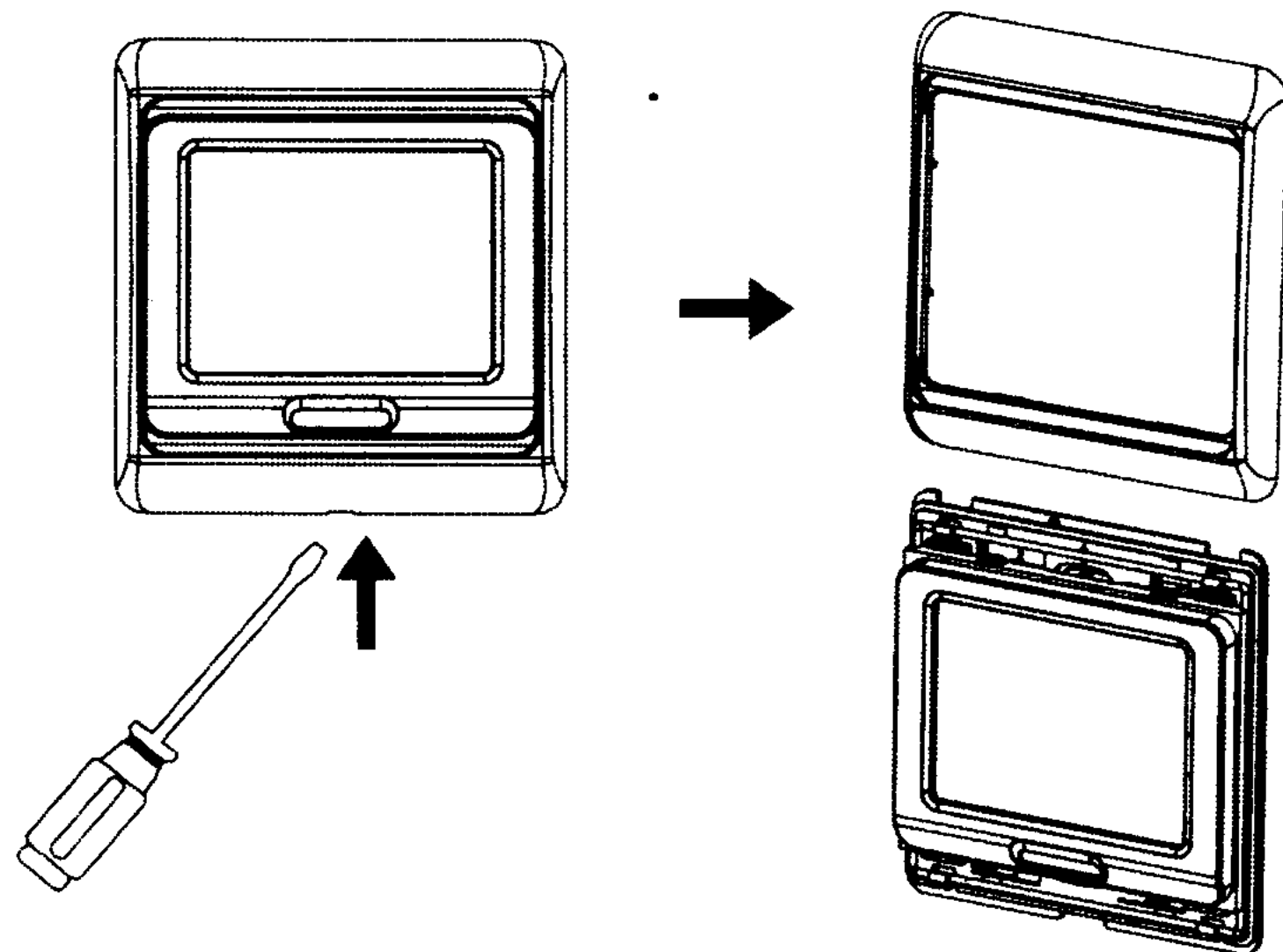


Dimension:
unit: mm

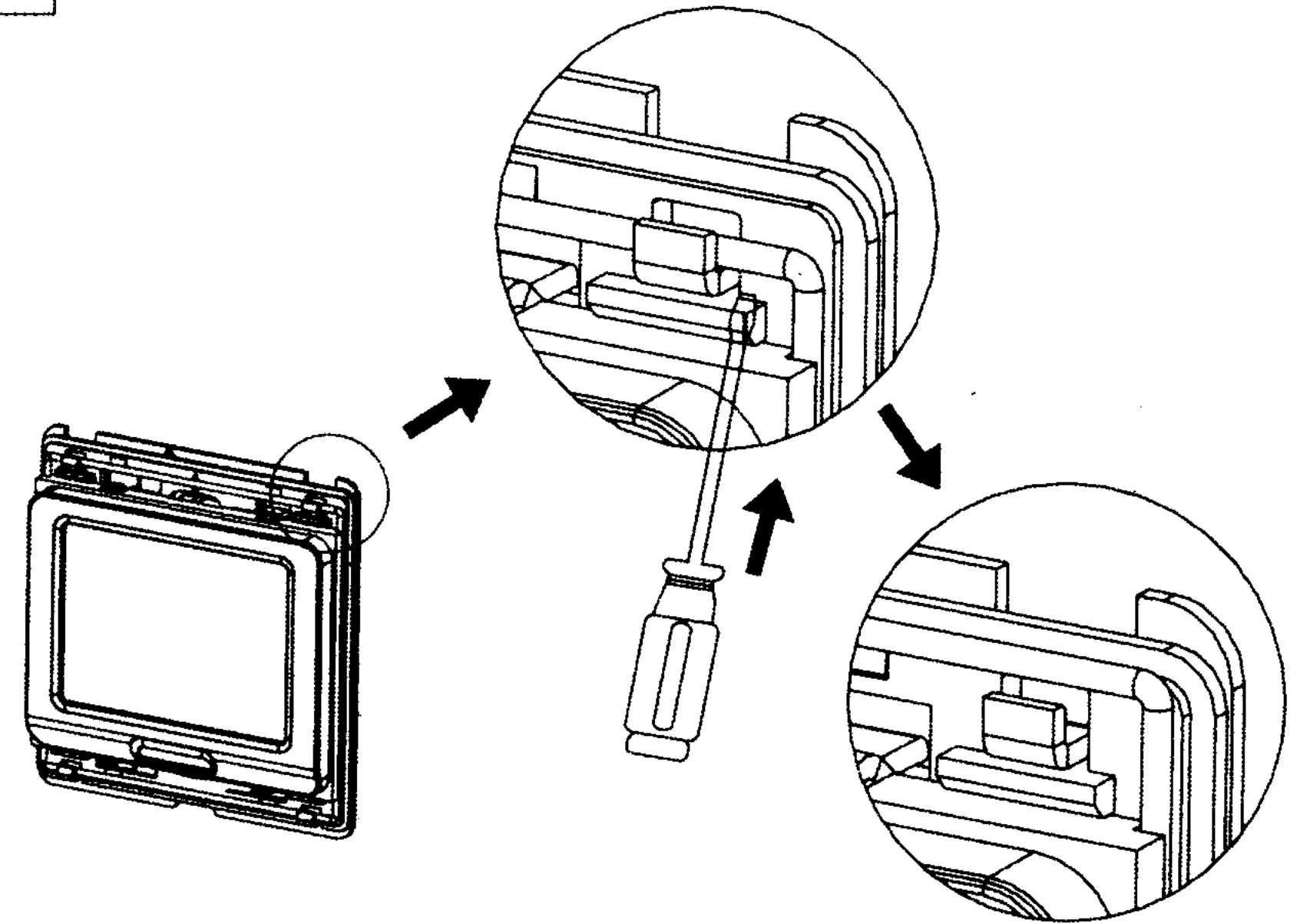


Mounting Step

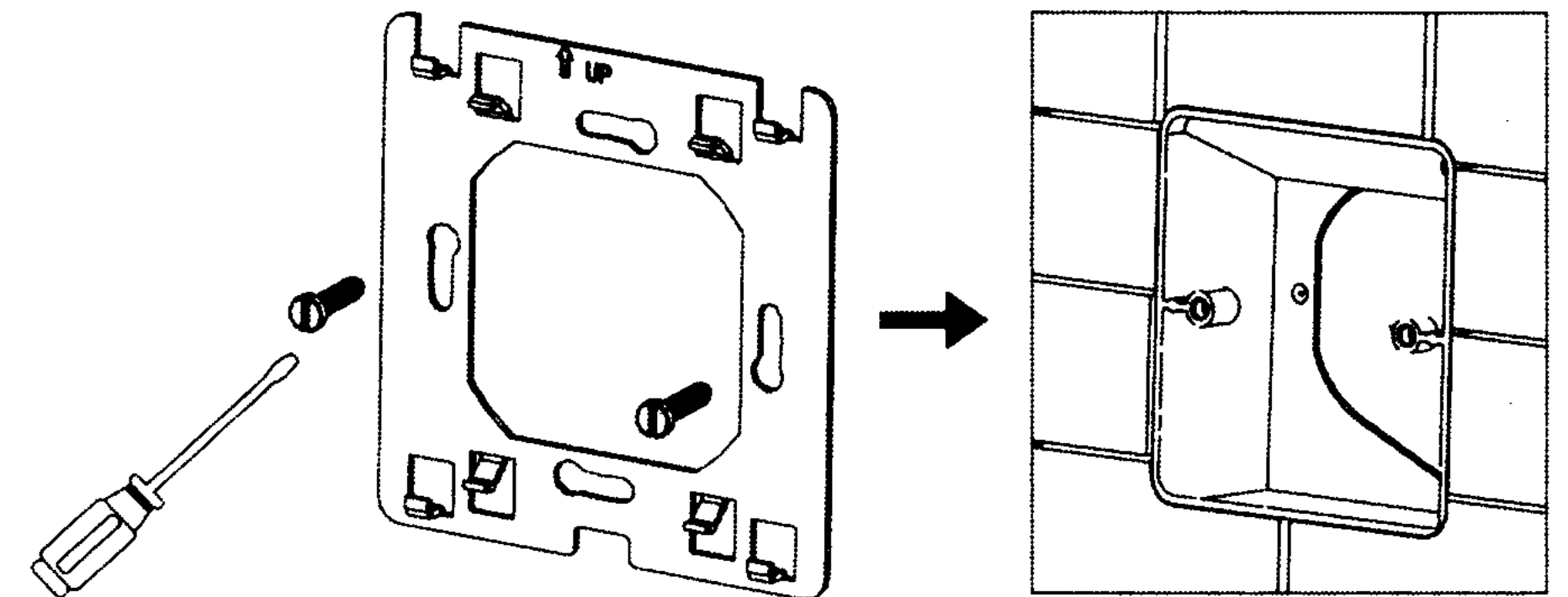
1 disassemble external frame with screw driver



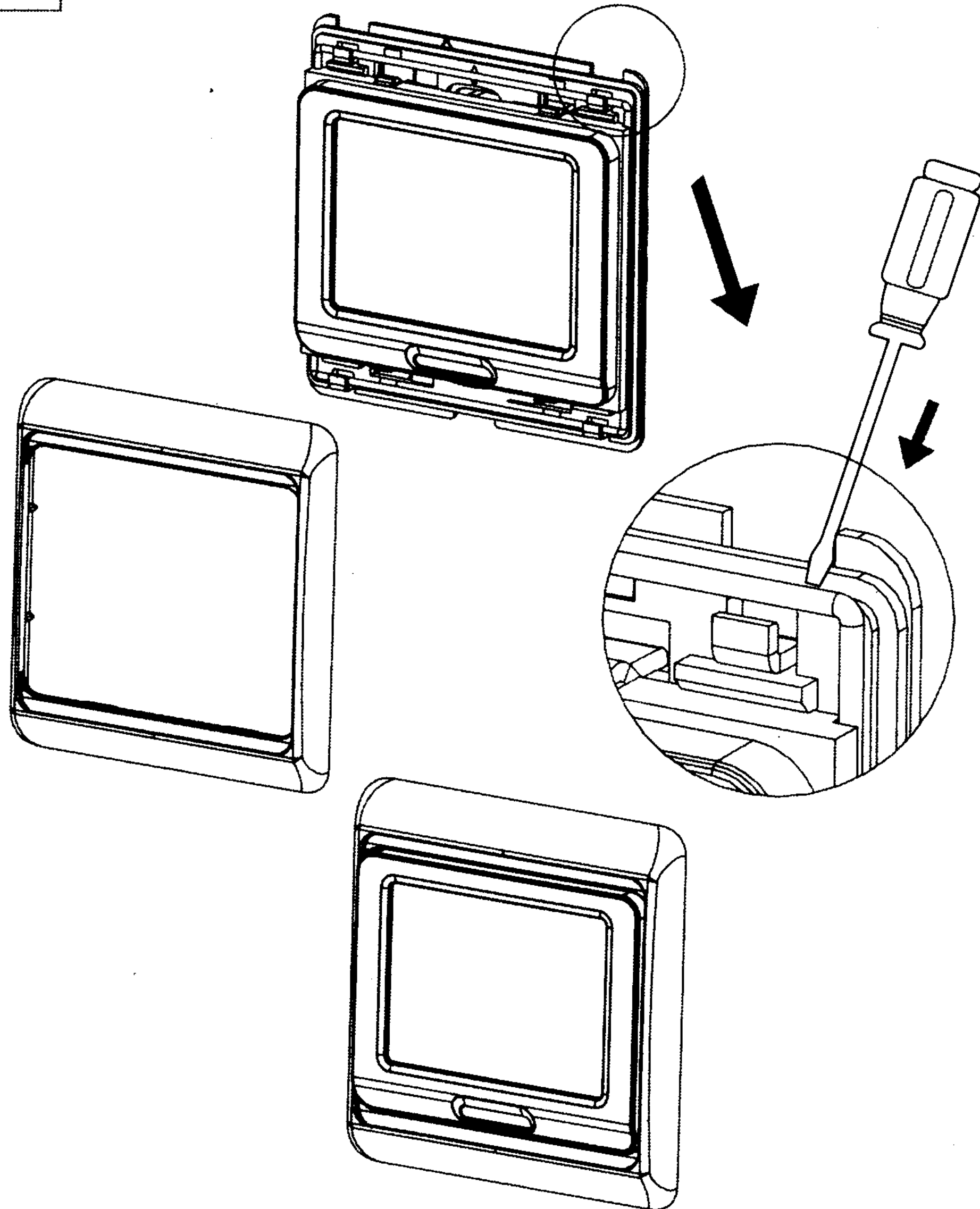
2 disassemble iron plate with screw driver



3 fix iron plate to installation box with screw driver



4 wiring cables according to wiring diagram, install thermostat, fix iron plate with screw driver cover external frame



System Wiring Diagram

