

BVF 23-FX

RF Thermostat



TECHNICAL DATA

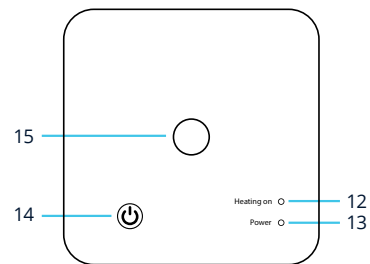
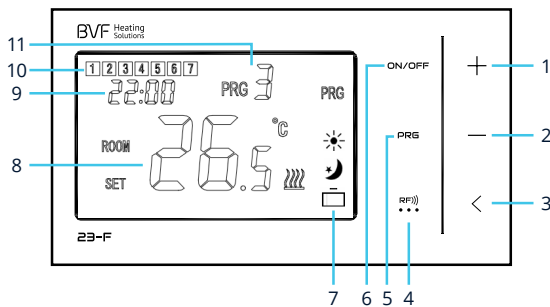
Thermostat Operating Voltage:	2 x AAA 1.5V, alkaline batteries
Receiver Current Load:	230V, 50/60Hz
Backup Storage:	EEPROM
Capacity:	3600W / 16A
External Sensor:	NTC 10kΩ @ 25°C
Frequency:	868MHz / 433MHz
Switching options:	5+1+1 day, 4 periods each day
Temperature settings:	5°C ~ 30°C, 0.5°C increments
Accuracy:	+/- 0.5°C
Thermostat dimensions:	135mm x 88mm x 22mm
Receiver dimensions:	86mm x 86mm x 26mm
Relay inst. dimensions:	Ø 65 mm diameter, min. 55mm depth
Color:	White
IP protection rating:	20
Certification:	CE

PRODUCT FEATURES

- Large display can be clearly read with the background lighting
- Six buttons make it easy to use
- 4 periods of each day programmable (5+1+1)
- The display shows the set and the measured temperature
- The thermostat is supplied with a wall-fixing frame and desktop stand

The unit consists of two parts: 23-F controller and 23-X receiver. The controller has been developed to operate electric surface heating units. Receiver part is designed for standard electric outlet. The controller can be accommodated anywhere in the room.

DISPLAY AND BUTTONS





- | | | | |
|---------------|---|-------------------------------|----------------------------|
| 1 + button | Increase temperature (change value at settings) | 9 Clock | Displays actual time |
| 2 - button | Decrease temperature (change value at settings) | 10 Weekday | Displays actual weekday |
| 3 Back | Back to main page | 11 Cycle time | Displays actual cycle time |
| 4 Menu | Set time / Select Mode | 12 Heating on LED indicator | |
| 5 PRG | Programming | 13 Power supply LED indicator | |
| 6 On/Off | Turn unit On /Off | 14 On / off button | |
| 7 Actual mode | Displays actual mode | 15 Pairing device button | |
| 8 Temperature | Displays actual temperature | | |

SETUP TIME AND SELECT MODE

Set up actual time and weekday

After turning the controller on, press **RF** button and hold 3 seconds, the time display will start flashing. Change the minutes by **+** and **-** button. Press **RF** button again, and change the hours. Press **RF** button again and set the day of the week: 1-Monday; 2-Tuesday etc. After setting up time and day push the **<** button to save changes.

Select mode

The controller offers four different pre-set modes. The PRG mode sets up temperature using 4 different programmed cycle times a day. The Comfort mode , Energy saving mode  and the holiday mode  keeps the assigned temperature all around the week.

You may switch between modes using **RF** button.

PARAMETER SETTINGS

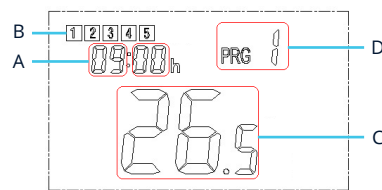
You might need to calibrate the temperature sensor, adjust floor temperature limit and other features for the first use. Turn off the controller, press and hold the **RF** button for 3 seconds. To access parameter setting, press **RF** and **+** buttons simultaneously for 10 seconds until the MENU appear. Each press of the **RF** button will go to the next item.

Menu	Description	Range	Default
01	Temp. Offset	-9°C ~ 9°C	0
02	Set Point Max.	5°C ~ 80°C	35°C
03	Set Point Min.	5°C ~ 80°C	5°C
04	Sensor Select	0: I or E 1: I & E 2: I 3: E (I = Internal sensor, E = External sensor)	1: I & E
05	Floor Temp. Display	Read Only	
06	Dead zone	0°C ~ 3°C	1°C
07	Low temp protection	5°C ~ 15°C	5°C
08	High temp protection	5°C ~ 80°C	29°C
09	Factory reset	Press + or - buttons, screen will show 88, factory reset until exit	
10	OWD function ON/OFF select	0 - off, 1 - on	0
11	OWD Detect Time Select	2 ~ 30 mins	15 mins
12	OWD Drop temp. select (within detect time)	2 / 3 / 4°C	2°C
13	OWD Delay time select (Return to previous working status)	10 ~ 60 mins	30 mins
14	External sensor temp.offset	-8°C ~ 8°C	0
15	Energy optimisation	1: electric radiator 2: heating panel 3: ceiling heating 4: floor heating	2
16	RF code		
17	Software version		

SETUP PROGRAM MODE

Pre-set factory values of the program mode might be modified easy as follows:

	Monday to Friday				Saturday				Sunday			
Cycle	1	2	3	4	1	2	3	4	1	2	3	4
Time	6:30	8:00	18:00	22:30	8:00	10:00	18:00	23:00	9:00	12:00	19:00	0:00
Temperature	21°C	18°C	21°C	16°C	21°C	21°C	21°C	16°C	23°C	21°C	16°C	21°C



Weekdays are displayed on the top left area of the screen (B) from Monday to Sunday (1-7). You can adjust cycle times (D) and temperatures (C) for each period: one for the working days (1-5), one for Saturday (6) and one for Sunday (7). All three periods have a daily routine of four cycles with its own starting time and temperature value.

- To modify values in program mode press **PRG** button for 3 seconds. Time starts flashing (A) Set the starting time of the cycle within the period using **+** and **-** buttons, and after pushing **PRG** button again, set the desired temperature value of the cycle.
- Press **PRG** button and display will jump to the next cycle. Program all values of the working days, then Saturday and Sunday.
- You may save changes and return using the **<** button.

PAIRING WITH THE RECEIVER

The receiver is usually paired with the receiver; still in some cases you might need to repeat pairing, which is fast and easy:

- Long press the code pairing button on the receiver until "Heating on" (12) LED is flickering quickly.
- Turn thermostat off and press **RF** button until the code shows on the screen, then press **+** button.
- Wait for while, "Heating on" (12) LED stop flickering. Code pairing finished.

WIRING DIAGRAM

