BVF 24-F

RF room thermostat (sender only)

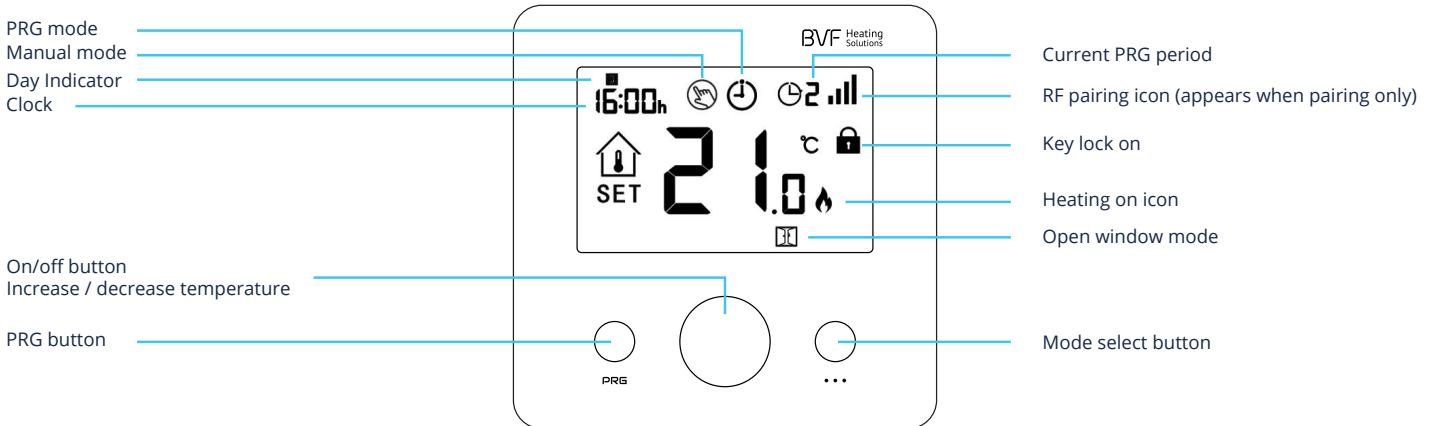**BVF** Heating Solutions
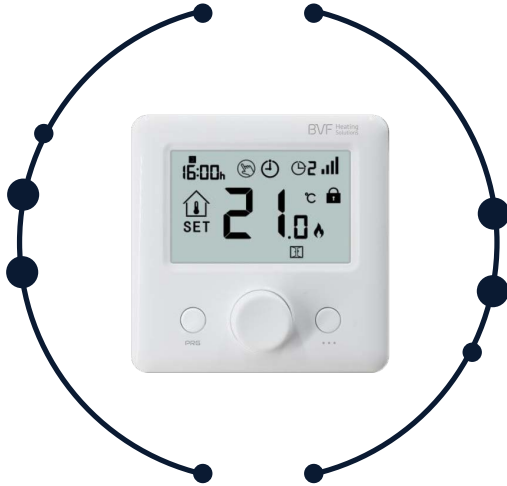
TECHNICAL DATA

Thermostat Operating Voltage:	2 x AAA 1.5V, alkaline batteries
Backup Storage:	EEPROM
Frequency:	868MHz
Receiver capacity:	
24-X	3600W/16A
24-A	3600W/16A
Switching options:	5+1+1 day, 4 periods each day
Temperature settings:	5°C ~ 35°C, 0.5°C increments
Accuracy:	+/- 0.5°C
Thermostat dimensions:	86mm x 86mm x 26.5mm
Color:	White
IP protection rating:	20
Certification:	CE

PRODUCT FEATURES

- Large display can be clearly read with the background lighting
- Easy to fit thermostat and receiver
- Knob button make it easy to use.
- 4 periods of each day programmable (5+1+1)
- The display shows the set and the measured temperature
- Compatible with 24-A, 24-P, 24-X

CE   RF)))

PRG mode
Manual mode
Day Indicator
Clock

Current PRG period
RF pairing icon (appears when pairing only)
Key lock on
Heating on icon
Open window mode

On/off button
Increase / decrease temperature
PRG button

Mode select button

CODE PAIRING

According to the receiver's manual.

MODE SELECT

Press ••• button to select PRG mode / manual mode / away mode.

CLOCK

Under thermostat on, press and hold ••• button for 3s, set the clock by adjusting the knob to left or right, each press of ••• button will go to next item setting.

PRG SETTINGS

Press and hold ⎡PRG⎤ button for 3s to enter program setting.

Set the schedule (Weekday-Period-Start time-Temp.) by adjusting knob to left or right to change value setting, each press of ⎡PRG⎤ button will go to next item setting. Weekday is fixed(Mon.-Fri., Sat., Sun.)

Default values:

Period	Wake up 1		Leave Home 2		Return Home 3		Sleep 4	
	Time	Temp.	Time	Temp.	Time	Temp.	Time	Temp.
1-5 (Mon.-Fri.)	7:00	22°C	8:30	19°C	17:00	22°C	22:00	19°C
6 (Sat.)	8:00	22°C	8:30	22°C	17:00	22°C	22:00	19°C
7 (Sun.)	8:00	22°C	8:30	22°C	17:00	22°C	22:00	19°C

KEY-LOCK FUNCTION

Under child lock ON (refer to menu12 of parameter setting), the buttons will be locked once backlight off, if so you can long press on/off button to unlock.

OPEN WINDOW DETECTION (OWD) FUNCTION

When the Open Window detect function is enabled in the parameter setting, the system will automatically stop heating when it detects a sudden drop of room temperature (2°C in 15 minutes as default). This is normally caused when a window or door is opened without turning off the heating device.

The device will return to the previous mode of operation after 30mins, then ▯▯ disappear. Press any button will exit OWD function during the heating off period.

PARAMETER SETTINGS

Turn off thermostat, long press Knob button to enter parameter setting page, each press of • • • button will go to next item setting. By adjust knob to left or right to change value setting. After setting, long press knob button to exit.

| Menu	Description	Range	Default
01	Temp. Offset	-8°C ~ 8°C	0
02	Set Point Max.	5°C ~ 35°C	35°C
03	Set Point Min.	5°C ~ 35°C	5°C
04	Sensor Select	**0**: I or E **1**: I & E **2**: I **3**: E (I = Internal sensor, E = External sensor)	2
05	Frost Protection Temp.	Off; 5°C ~15°C	5°C
06	Surface Temp. Display	Read Only	
07	High Temp. Protection	5°C ~ 80°C	32°C
09	Dead zone	0°C ~ 3°C	0°C
11	Factory reset	Choose "rE" then press on/off button for 5s, until thermostat restart	
12	Key lock	0 - off, 1 - on	0
14	OWD function ON/OFF select	0 - off, 1 - on	0
15	OWD Detect Time Select	2 ~ 30 mins	15 mins
16	OWD Drop temp. select (within detect time)	2 / 3 / 4°C	2°C
17	OWD Delay time select (Return to previous working status)	10 ~ 60 mins	30 mins
18	The temp. diff to exit high protection mode	1°C ~ 3°C	1°C
19	External sensor temp. offset	-8°C ~ 8°C	0
20	Energy optimisation	1: electric radiator 3: ceiling heating 2: heating panel 4: floor heating	2
21	Software version		
22	Software version		

INSTALLATION

Mount the thermostat at eye level. Read the instructions fully so you get the best from our product.

Do not install near to a direct heat source as this will affect functionality. Do not push hard on the LCD screen as this may cause irreparable damage.

Step 1: Carefully separate the front half from the back plate.
Step 2: Screw the thermostat back plate securely on wall with provided screws
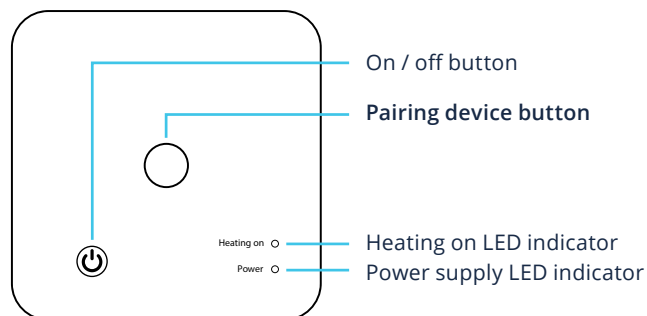Step 3: Clip the front of the thermostat onto the back plate.
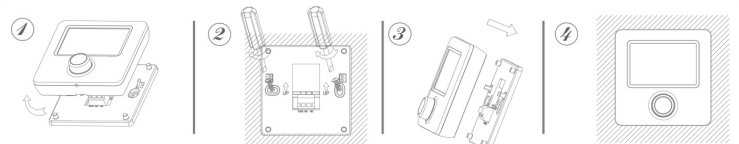
TECHNICAL DATA

Receiver Current Load:	230V, 50/60Hz
Capacity:	max. 3600W/16A
External sensor:	NTC 10kΩ @ 25°C
Frequency:	868MHz
Dimensions:	86mm x 86mm x 26mm
Relay inst. dimensions:	Ø 65 mm diameter, min. 55mm depth
Color:	White
IP protect rating:	IP 20
Certification:	CE

CE

RF)))

- On / off button
- **Pairing device button**
- Heating on LED indicator
- Power supply LED indicator

PAIRING WITH 24-F

Enter parameter setting page (see the details in the 24-F manual), then select the appropriate setting in sensor select menu nr. 4 as follows:

- Use Setting **1** for floor heating   *(double sensor setting)*
- Choose Setting **3** for comfort floor heating   *(floor sensor only)*
- Setting **0** is only applies to infrapanel heating with single room sensor function
- 🚫 *Use Setting **2** solely for 24-A and 24-P receivers   (room sensor only, unable to work with 24-X unit)*

Important notice: according to the settings, you can connect only the same type of receiver with a single 24-F controller.

Pairing process

1. Long press the code pairing button on the receiver until LED flash.
2. Turn off sender by press on/off button, and long press • • • until the RF code shows on the screen (XXXX), then please rotate button to left or right, 📶 icon starts flashing.
3. Wait for a while till 📶 icon stops flashing. Code pairing finished.

WIRING DIAGRAM

7	6	5	4	3	2	1

EXTERNAL SENSOR   L   3600W/16A   N   N 230V/AC L