



Radio Thermostat Clock

Part Number: 30800009

Installation & User Instructions



Suitable for all Ferrolì Combination Boilers

Contents



Description



Override



Safety
Instructions



System Mode



Installation



Continuous
radio operation



Setting time and
weekday



Reset key



Setting nominal
day and night
value



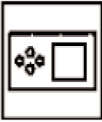
Selecting the
program



Individual daily
program



Operating modes



Short Description

Short description Radio Thermostat Clock - Transmitter

The Radio Thermostat Clock is a 7 day radio frequency (RF) wireless thermostat/ timer which communicates with a special receiver designed to replace the universal digital timer fitted to most of Ferrolli's combination boilers.

The Radio Thermostat Clock is battery powered and can be sited wherever conventional room thermostats would normally be sited.

In combination with the Radio Thermostat Clock receiver, the Radio Thermostat Clock transmitter creates a room thermostat clock of highly advanced technology. The device is wireless and controls the heating boiler via radio, providing comfortable room temperatures.



Safety Instructions

Safety Instructions

Both receiver and transmitter should be fitted by a competent person.

It is imperative to observe the generally applicable safety measures, such as: Before starting any work on fitting the receiver, switch off power supply and secure against switching on.

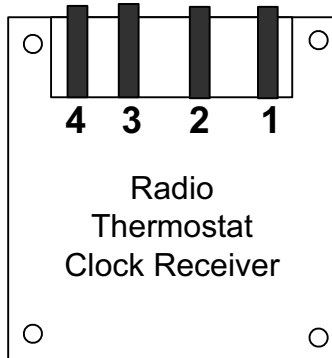
Do not use any metallic and sharp pointed objects for the operation of the keys.

For technical data, see label on the unit or data sheet.



Receiver Installation

Rear view of receiver



Live (Brown) - Terminal 1

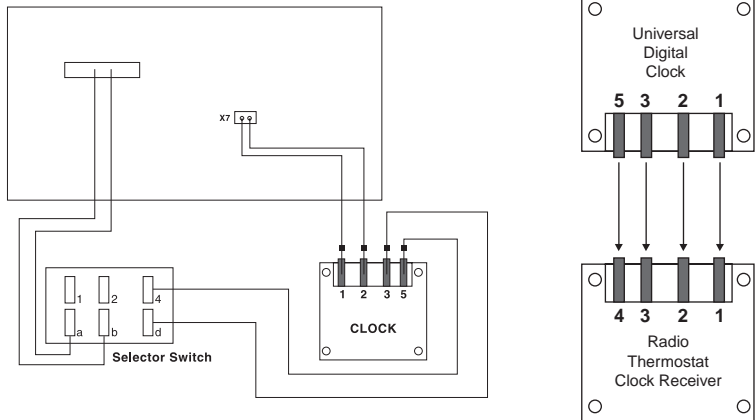
Neutral (Blue) - Terminal 2

Switching wires - Terminals 3 & 4

Please note: If replacing universal digital timer, please ensure you now use terminals 3 & 4, instead of 3 & 5 as per universal digital timer. (If wired incorrectly controller will work in reverse)

If you require further wiring details, please see following 4 pages for more detailed instructions.

Optima 01 Range

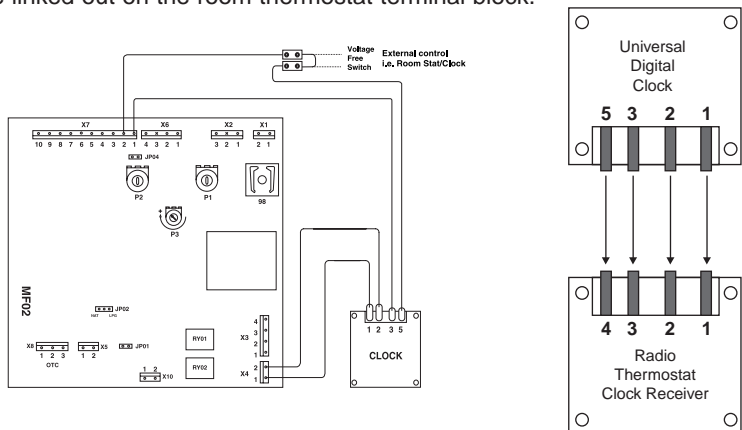


- Step 1** Remove clock from control panel.
- Step 2** Swap wiring as shown. **Make sure Live is connected to terminal 1 (wire colour is not conclusive of polarity)**
- Step 3** Fit receiver into control panel.

Note. If the Radio thermostat clock is going to replace the existing room thermostat this must be linked out on the room thermostat terminal block located in the electrical compartment on the underside of the boiler.

Domina, Modena and Falcon (MF02)

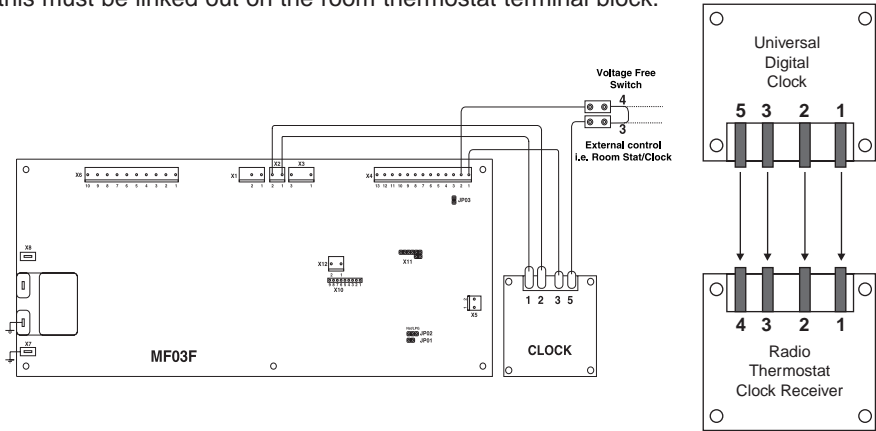
Note. If the Radio thermostat clock is going to replace the existing room thermostat this must be linked out on the room thermostat terminal block.



- Step 1** Remove clock from control panel.
- Step 2** Swap wiring as shown. **Make sure Live is connected to terminal 1 (wire colour is not conclusive of polarity)**
- Step 3** Fit receiver into control panel.

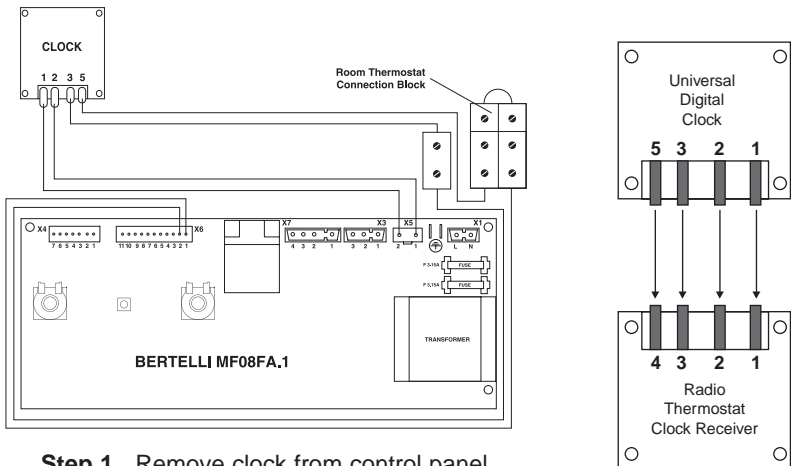
Domina, Modena and Falcon

Note. If the Radio thermostat clock is going to replace the existing room thermostat this must be linked out on the room thermostat terminal block.



- Step 1** Remove clock from control panel.
- Step 2** Swap wiring as shown. **Make sure Live is connected to terminal 1 (wire colour is not conclusive of polarity)**
- Step 3** Fit receiver into control panel.

Domicompact Range

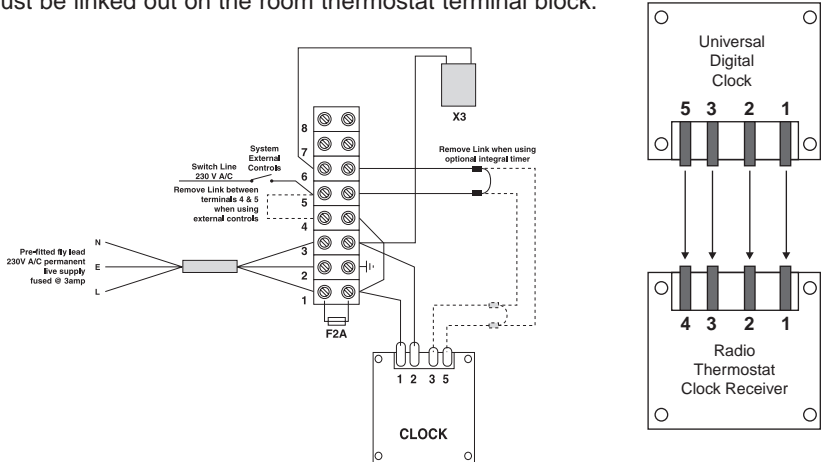


- Step 1** Remove clock from control panel.
- Step 2** Swap wiring as shown. **Make sure Live is connected to terminal 1 (wire colour is not conclusive of polarity)**
- Step 3** Fit receiver into control panel.

Note. If the Radio thermostat clock is going to replace the existing room thermostat this must be linked out on the room thermostat terminal block.

Optimax 25C

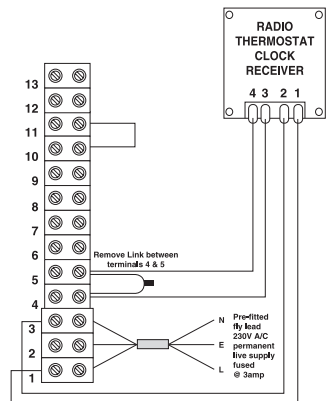
Note. If the Radio thermostat clock is going to replace the existing room thermostat this must be linked out on the room thermostat terminal block.



- Step 1** Remove clock from control panel.
- Step 2** Swap wiring as shown.
- Step 3** Fit receiver into control panel.

Maxima 35C

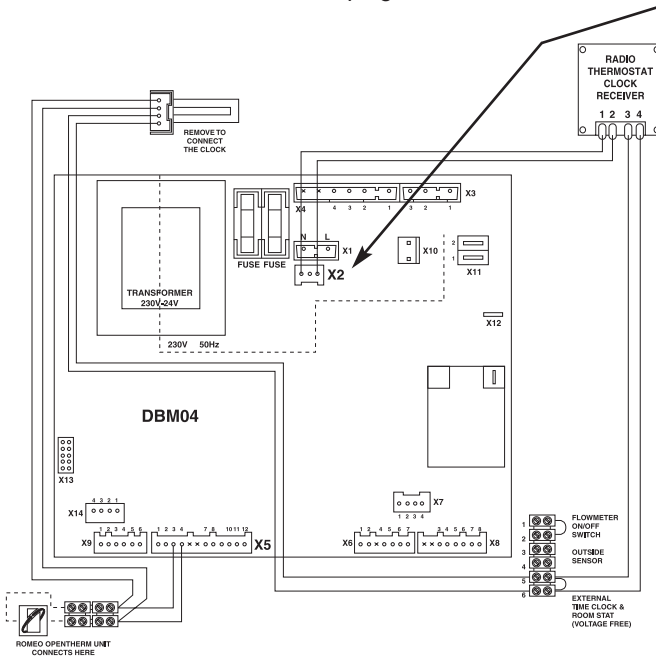
- Step 1** Remove the boiler front cover and lower the control box.
- Step 2** Remove the terminal block cover.
- Step 3** Cut off connect block bare back wires approx. 7mm and connect brown to terminal 1 and blue to terminal 3 on the outlet side of the block.
- Step 4** Connect brown and blue onto receiver terminals 1 and 2. **Make sure live is connected to terminal 1.**
- Step 5** Connect the two grey wires to terminal 3 and 4 on the receiver. On the main boiler terminal block remove link wire from terminals 4 and 5 and connect the two grey wires.



- Step 6** Place receiver on back of terminal block cover and mark two diagonally opposed fixing holes, with the cover removed drill two 2.2mm holes. Mount the receiver using the shortest two screws supplied with the radio thermostat.

Optimax HE Range

- Step 1** Remove boiler outer case and lower control box.
- Step 2** Remove control box cover.
- Step 3** Connect brown and blue JST plug onto PCB terminal block X2.



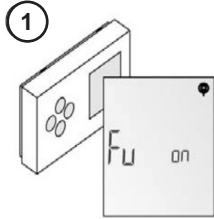
- Step 4** Connect brown and blue onto receiver terminals 1 and 2. **Make sure live is connected to terminal 1. (the wire colour is not conclusive of polarity).**
- Step 5** Connect the two grey wires to terminal 3 and 4 on the receiver. On the main boiler terminal block remove link wire from terminals 5 and 6 and connect the two grey wires.
- Step 6** Place receiver on back of terminal block cover and mark two diagonally opposed fixing holes, with the cover removed drill two 2.2mm holes. Mount the receiver using the shortest two screws supplied with the radio thermostat.



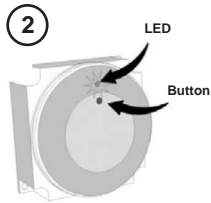
Installation

ATTENTION!

Radio link installation



1. Install transmitter and select continuous radio operation system mode. (See page 17)



2. Press receiver button and hold down for 2 seconds. The LED flashes twice. Then release the button. The LED remains on between 1 and 10 seconds. When a correct link between the transmitter and receiver has been established the LED goes off. Subsequent RF transmissions are indicated visually by a momentary flash of the LED.

3. Move transmitter to required location and observe LED to monitor reception. If no reception and appropriate location must be found.

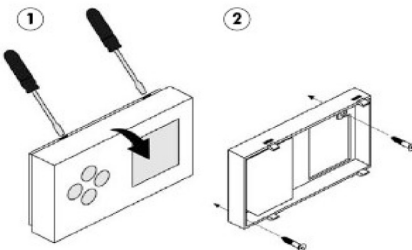
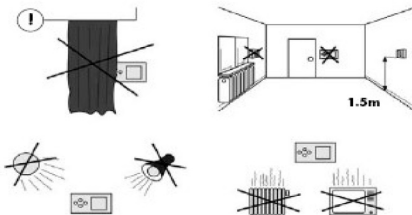
4. Stop continuous radio operation.

Note: If no reception is possible it has to be checked whether any metallic cupboards or other metallic obstacles may interfere.

Emergency running mode

If no valid radio signal is received from the receiver for more than 1 hour, emergency running mode is activated. ED value 12.8 minutes, switch-on time 30%. See page 16.

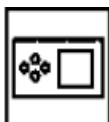
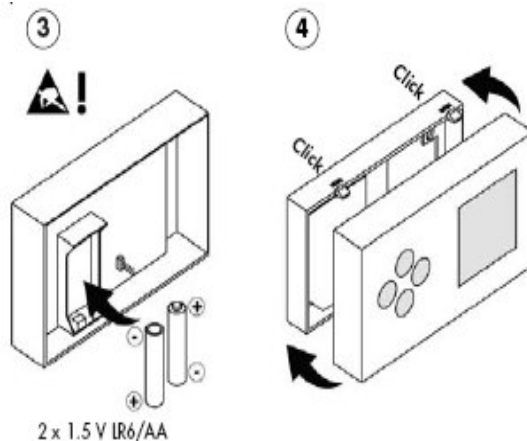
Location














Installation Cont.

Battery Installation

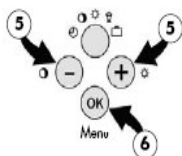
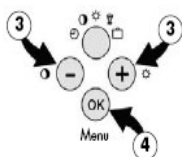
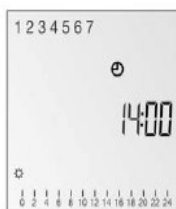
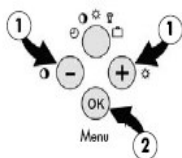


Description

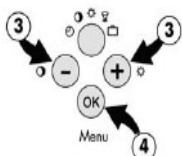
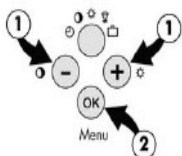
-  Time
-  Nominal day value
-  Nominal night value
-  Party Operation
-  Holiday Operation
-  Override Mode
-  Battery Change
-  Heating On
-  Continuous radio operation



Setting time and weekday



Setting nominal Day and Night value



Selecting the Program

A program P1 to Pd must be allocated to each weekday (1 to 7). **P1 to P4 are preset times for the duration of nominal day temperature, for example:**

P1: 07:00 a.m. - 23:00 p.m. - Once

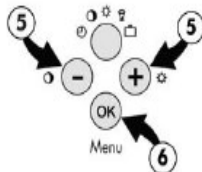
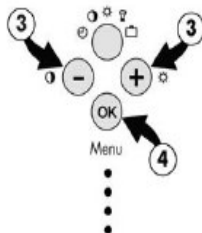
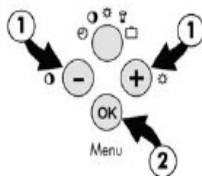
P2: 06:00 a.m. - 09:00 a.m./ 17.00 p.m. - 22.00 p.m. - (Timed-boiler on in the morning and evening)

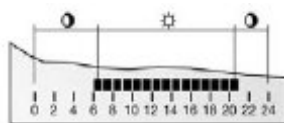
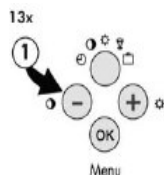
P3: 00:00 a.m. - 24:00 p.m. - Continuous

P4: Only nominal night temperature

Programs P1 to P4 cannot be changed by the user.

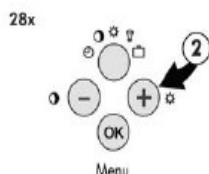
Pd, individual daily program



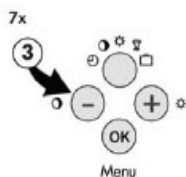


Example

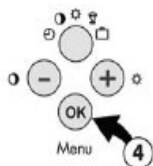
Boiler 'Off' 00:00 - 06:30
 Boiler 'On' 06:30 - 20:30
 Boiler 'Off' 20:30 - 00:00



By pressing the 'minus' button the boiler off period will be set. In this case the minus button is pressed 13 times to set 6.30am



By pressing the 'plus' button the boiler on period will be set. In this case the plus button is pressed 28 times to set 20.30pm.



Then the next Off period from 20.30 until 6.30 will be set by pressing the 'minus' button 7 times.



The individual ON/ OFF periods can be set as many times as often. The time can be set in 30 minute blocks.



Operating Modes - Nominal day temperature

Automatic operation

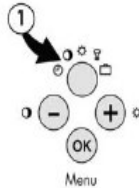


After programming, the unit is in automatic mode. Further programming is possible via the menu key. The various operating modes can be selected by means of the operating mode key. The menu key allows to switch back to automatic operation



Operating Modes - Nominal night temperature

Continuous operation nominal night value

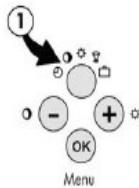
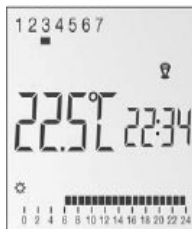


The heating is regulated to the nominal night value.



Operating Modes - Party Function

Party operation



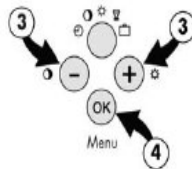
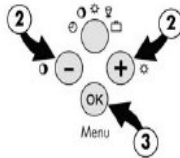
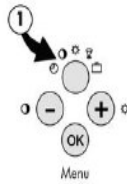
The next reduction of the temperature to the nominal night temperature is not carried out. With the next programmed nominal day temperature switching command, the regulator switches back to automatic operation.



Operating modes - Holiday function

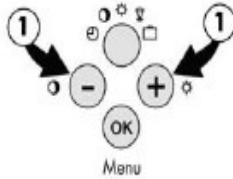
Holiday Operation

In this mode a nominal temperature can be set for a certain number of days.





Override Mode

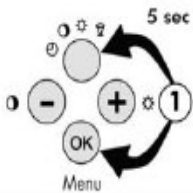


Override mode

In this mode the nominal value can be changed quickly. The override mode is only valid until the next switching command is active. The nominal value is shown.



System mode



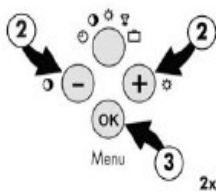
Setting the ED value

ED 01

Scan time 8.5min. (rapid heating system, factory setting)

ED 02

Scan time 17 min. (heating system at medium speed)



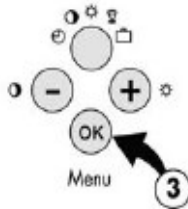
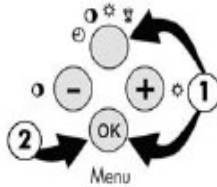
ED 03

Scan time 25.5 min. (slow heating system)

The ED value is the scan time between the transmitter and receiver. The higher the selected scan time the slower the programmer responds to room temperature changes.

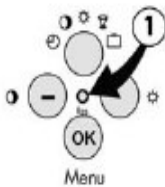


Continuous radio operation



reset

RESET key



-> Initial state

-> Program is retained

Note: If RESET button is pressed all individual programs have to be re-programmed.



-> Status upon delivery



Notes

Notes



Because of our constant endeavour for improvement details
may vary from those quoted in these instructions

Should you require any assistance during the
installation call our Technical Service Helpline on
08707 282 885 option 1

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Staffordshire. DE14 3HD
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