

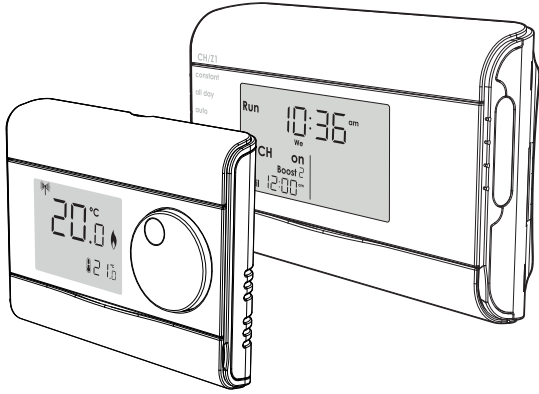


# NEOMITIS™ TMR7RFa

## OPERATING

# INSTRUCTIONS

## 7 DAY SINGLE CHANNEL DIGITAL TIMER WITH RF ROOM THERMOSTAT



## TABLE OF CONTENTS

- Overview..... 1
- Controls and display ..... 1
  - Timer.....1
  - Room thermostat.....1
- Settings ..... 1
  - Initial power up .....1
  - Pairing procedure.....2
- Programming..... 3
  - Set the CH/Z1 programming .....3
- Operating ..... 3
  - Mode selection and description .....3
  - Boost .....3
  - Advance.....3
  - Holiday.....3
  - Review .....4
  - Temperature setting.....4
  - Factory settings.....4
  - Set date and clock.....4
- Troubleshooting ..... 5
- Technical specifications ..... 5
- Note..... 5
- What is a Timer ?..... 5



## OVERVIEW

Thank you for purchasing our TMR7RF, wireless 7 day single channel digital timer with RF room thermostat.

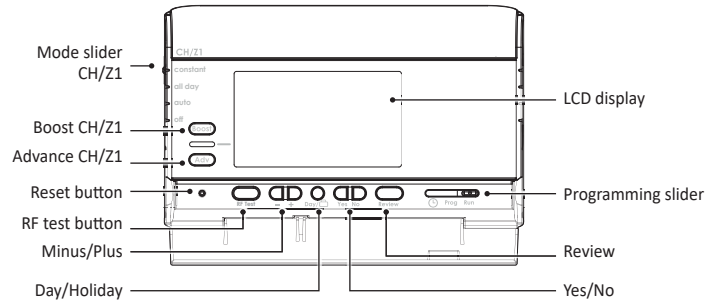
It is by listening to your requirements we have created and designed our products to be easy to operate and install.

It is this ease of operation that is intended to make your life easier and help you save energy and money.



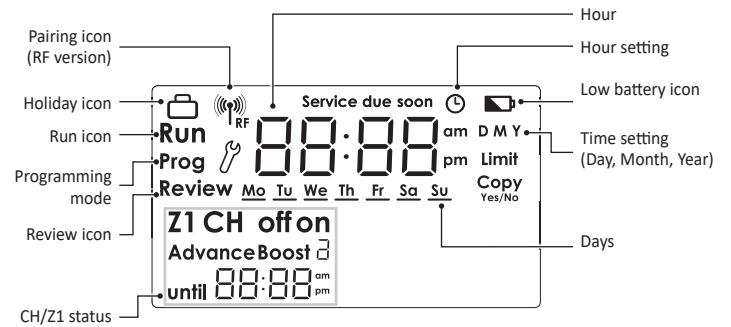
## CONTROLS AND DISPLAY

### TIMER

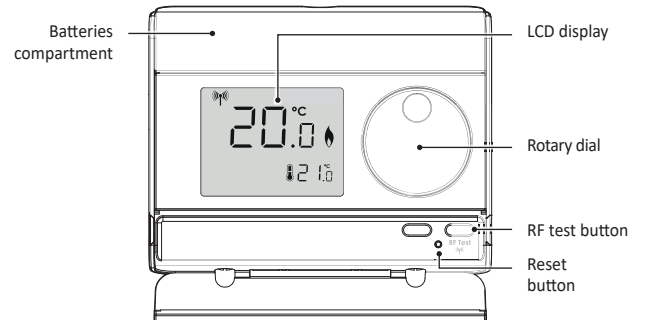


Programming sliders sequences:  
Time → CH/Z1 programming → Run

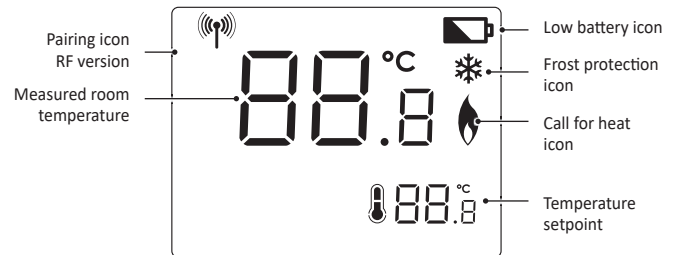
#### LCD Display



### ROOM THERMOSTAT



#### LCD Display

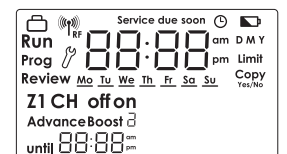


## SETTINGS

### INITIAL POWER UP

#### Timer

- Switch on the timer power supply.  
All symbols will be displayed on the LCD screen as shown for two seconds.

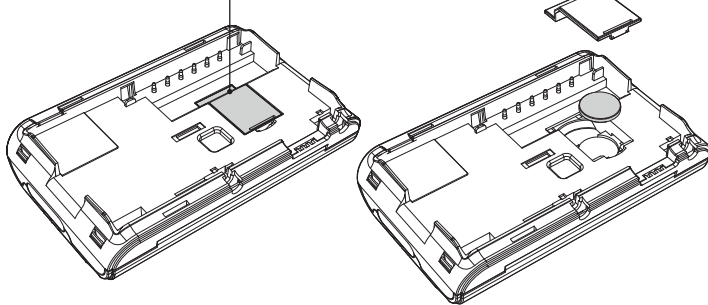


- 2- After 2 seconds, the LCD will show:
- The default time and day
  - Run icon solid
  - CH systems is OFF



**Note:** A low battery level indicator will appear in the display when the battery must be changed.

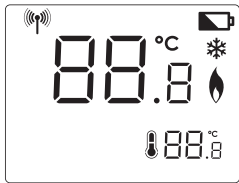
**Timer battery access**



Remember to take used batteries to a battery collection point so they can be recycled.

• **Room thermostat**

- 1- To start: insert the two AA batteries provided into the battery compartment.  
Once batteries are fitted all symbols will be displayed on the LCD screen as shown for two seconds.



- 2- After 2 seconds, the LCD will show:
- The ambient temperature (°C) solid.
  - The icon is solid when the heating is turned ON.
  - The setpoint temperature (°C) solid.
  - RF icon flashes.



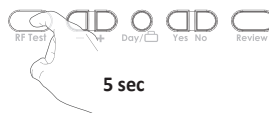
**Note:** A low battery level indicator will appear in the display when the battery must be changed.

Remember to take used batteries to a battery collection point so they can be recycled.

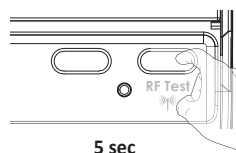
**PAIRING PROCEDURE**

The room thermostat and the timer are not bonded together at the factory. To bond the transmitter and the timer together, proceed as below:

- 1- Move the mode slider on of the timer to the OFF position and then move the program slider to the RUN position. Once this is done, press and hold the RF test button until Pair is shown in the display (approx. 5 seconds). The pairing icon will be flashing.



- 2- **Within 1 minute**, press and hold the RF Test button on the room thermostat until PAir is shown in the display (approx. 5 seconds). The pairing icon will be flashing.



- 3- Timer and room thermostat RF icon will be solid when pairing is complete and normal display is returned.



**Note:** the timer is usually located near your boiler. If you want to check the signal strength, press and release the RF test button on the room thermostat. RF icon blinks for 10 seconds then signal strength appears. 10 is the best signal strength.

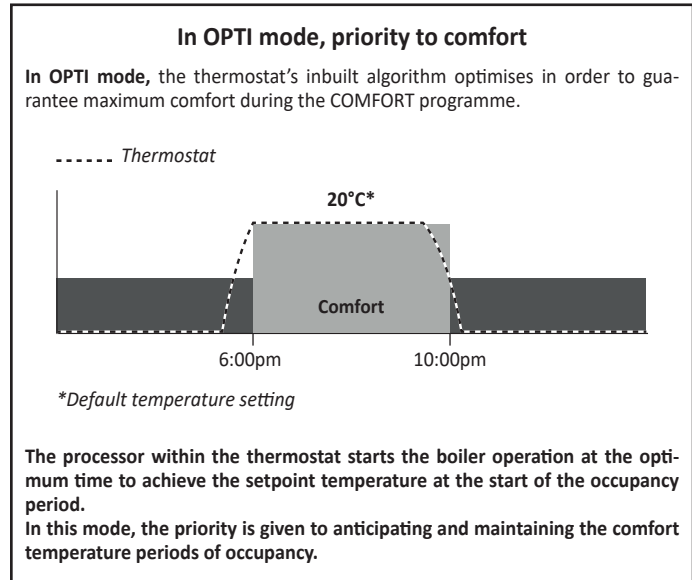
**PLEASE READ BEFORE PROGRAMMING YOUR THERMOSTAT**

**OPTIMISATION EXPLAINED**

**WHAT IS OPTIMISATION – OPTIMUM START?**

Historically, most UK heating systems waste vast amounts of energy by firing unnecessarily early for most of the year. Homeowners tend to set their boiler on times based on when they wake up by guessing what time they feel that their boiler should fire in order to reach the requested target temperature; for example turning the boiler on at 6am in order to have a warm room/ home by their wake up time at 7am.

**Optimisation function, priority to comfort:** Depending on various parameters: room inertia, ambient temperature, desired temperature, the thermostat calculates and optimizes the programming for each heating period:



Instead of using a fixed start time, Optimum Start calculates how long the house will take to warm up depending on the temperature of the home, then fires the boiler automatically at the most efficient moment in order to reach your target temperature by your programmed time.

**HOW DOES OPTIMUM START WORK?**

Optimum Start works on a daily basis. You set the time that you want to be warm and Optimum Start will do the rest; for example - **if you wake up at 7:30AM, then set your thermostat's start time for 7:30AM**. Optimum Start ensures that you are warm when you want to be (and not before), reducing wasted energy and saving money (up to 10% of energy costs).

When the product is in an optimisation period, the **on** or **off** will blink until the beginning of the **CH/ on** or **off** time.

To able / enable the optimisation, refer to the installation instructions/ advanced installer settings.



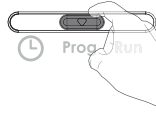


# PROGRAMMING

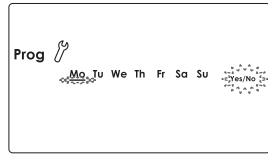
Note : The unit is already set with correct date and time. Should timer need resetting for any reasons, please see instructions on page 4.

## SET THE CH/Z1 PROGRAMMING

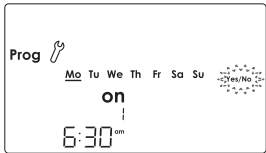
1- Move the Programming slider to position **Prog.**  
All days of week are solid. Underscore and Yes/No are flashing.



2- Press **Day** if you want to set another day of the week. Underscore moves under the other days. Then press **Yes** to program the underscored day.



3- Press **+** or **-** to increment/decrement the first On/Off period start time. Then press **Yes** to confirm.



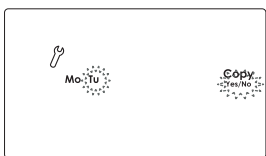
4- Press **+** or **-** to increment/decrement the first On/Off period end time. Then press **Yes** to confirm.



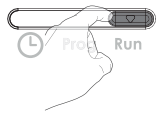
5- Repeat for the second On/Off period and for the third On/Off period.  
(Please refer to the advanced installer settings within the installation instructions to enable the third On/Off period).

On/Off periods	Default schedule	
<b>Two On/Off periods settings</b>		
Period 1	Start at 06:30 am	End at 08:30 am
Period 2	Start at 05:00 pm	End at 10:00 pm
<b>Three On/Off periods settings</b>		
Period 1	Start at 06:30 am	End at 08:30 am
Period 2	Start at 12:00 pm	End at 02:00 pm
Period 3	Start at 05:00 pm	End at 10:00 pm

6- The current program can be copied to the next days. Press **Yes** to copy or **No** to program manually the next day.



7- When finished, move the program slider to **Run** position to confirm.

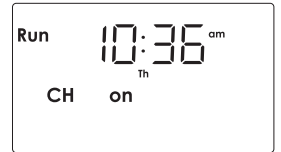
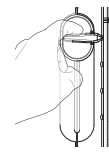


# OPERATING

## MODE SELECTION AND DESCRIPTION

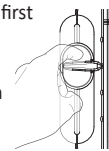
**Mode slider sequences for CH/Z1:**  
Constant → all day → auto → off

**Constant:** Permanent ON mode. The system is permanently turned ON.

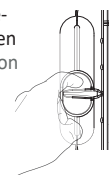


**All day:** The system turns ON from the first On period start time until the last Off period end time of the current day.

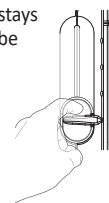
**Note:** If you press the advanced button during the optimisation period, when **CH is on**, the product will turn off until the first on period of the **next day**.



**Auto:** Automatic mode. The unit is operating to the programming that has been selected (refer to "Programming" section page 3).



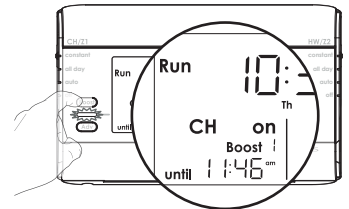
**Off:** Permanent Off mode. The system stays Off permanently. The boost mode can be still used.



## BOOST

**BOOST:** Boost mode is a temporary mode which allows you to switch ON for 1, 2 or 3 hours. At the end of set period the device will revert to its prior setting.

BOOST will work from any running mode except constant mode.  
BOOST is entered by pressing **Boost** button. Press **1 time** to set **1 hour**, **2 times** to set **2 hours** and **3 times** to set **3 hours**.



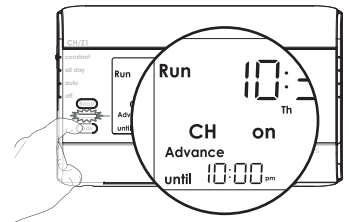
BOOST is cancelled by pressing again on Boost or movement of sliders.  
When BOOST is running the end of Boost period is shown for each system.

Note:

- The Programming slider must be in the **Run** position.
- There will be a slight delay between pressing **Boost** and activation of the relay.

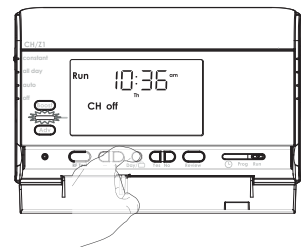
## ADVANCE

**Advance:** advance mode is a temporary mode which allows you to switch ON or OFF the system in advance, until the next On/Off period end time.  
Press **Adv** button to activate this mode. Press again **Adv** button to disable it before the end.



## HOLIDAY

**Holiday:** Holiday mode allows to switch off the heating (or Z1) for a specified number of days, adjustable between 1 and 99 days.



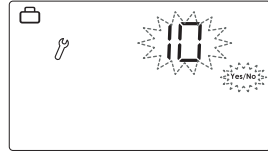
To set the holiday function:

- 1- Press Day button for **5 seconds**.



5 sec.

- 2- OFF appears on the display. Press **+** or **-** to increment or decrement the number of days.



- 3- Then press **Yes** to confirm. the heating (or Z1) switch Off and the number of remaining days will count down on display.



- 4- To cancel the holiday function, press **Day** button.



Note: To restore factory settings, press and hold down this part for more than **3 seconds** using the tip of a pen.



3 sec.

All LCD display will be turned ON for 2 seconds and the factory settings will be restored.

### Room thermostat

Settings	Factory settings
Set temperature	20°C

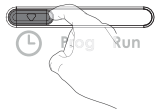
Note: To restore factory settings, press and hold down this part for more than 3 seconds using the tip of a pen.

All LCD display will be turned ON for 2 seconds and the factory settings will be restored.



## SET DATE AND CLOCK

- 1- Move the Programming slider to position . Preset year is solid.



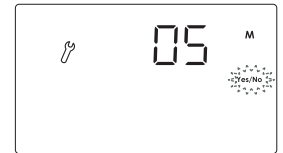
- 2- To select the current year, press **+**, to increment the year. Press **-**, to decrement the year.



Press **Yes** to confirm and set the current month.



- 3- The preset month appears. Press **+** to increment the month. Press **-** to decrement the month.



Press **Yes** to confirm and set the current day.



- 4- The preset day appears. Press **+** to increment the day. Press **-** to decrement the day.



Press **Yes** to confirm and set the clock.

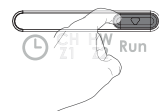


01 = January ; 02 = February ; 03 = March ; 04 = April ; 05 = May ; 06 = June ; 07 = July ; 08 = August ; 09 = September ; 10 = October ; 11 = November ; 12 = December

- 5- The preset time appears. Press **+** to increment the time. Press **-** to decrement the time.



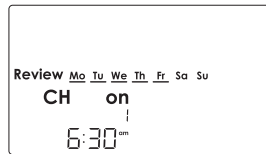
Move the program slider to any other position to confirm/finish this setting.



## REVIEW

**Review:** Review mode allows to review all set programming in one time. The review starts from the beginning of the week and each programmed period appears every 2 seconds on the display.

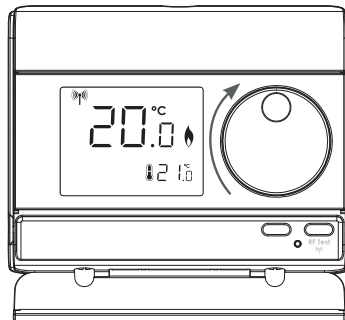
Press **Review** button to start the programming review. Press again to go back on normal operating mode.



## TEMPERATURE SETTING

The desired temperature can be set.

- 1- To set the temperature, turn the dial clockwise, to increment the temperature, turn the dial counter-clockwise, to decrement the temperature. The default temperature is 20°C (68°F).



## FACTORY SETTINGS

### Timer

Settings	Factory settings	
<b>Two On/Off periods settings</b>		
Period 1	Start at 06:30 am	End at 08:30 am
Period 2	Start at 05:00 pm	End at 10:00 pm
<b>Three On/Off periods settings</b>		
Period 1	Start at 06:30 am	End at 08:30 am
Period 2	Start at 12:00 pm	End at 02:00 pm
Period 3	Start at 05:00 pm	End at 10:00 pm

## ? TROUBLESHOOTING

### Display disappears on programmer:

- Check fused spur supply.

### Heating does not come on:

- If the CH Indicator light is on then it is unlikely to be a fault with the timer.
- If CH indicator light is NOT ON then check programme then try BOOST as this should operate in any position.
- Check that your room thermostat is calling for heat.
- Check that the boiler is on.
- Check that your pump is working.
- Check that your motorised valve if fitted has opened.

### The boiler is not heating:

- Check that the room thermostat is calling for heat if yes then the room thermostat would appear to be working check that the boiler has not switched itself off. If no increase set temperature.
- Check the position of the batteries. Remove them for 30 seconds and reinsert them. If the problem persists, replace the 2 batteries.

### Nothing in the display:

- Check the position of the batteries. Remove them for 30 seconds and reinsert them. If the problem persists, replace the 2 batteries.

### The room thermostat is not high enough, the boiler is not providing enough heat:

- Check the active desired temperature and increase it if need be (see page 4).

### You made a mistake while setting:

- You just need to restore factory settings, as explained in the "Factory settings" section (see page 4). This will reverse any changes you might have made.

### The system is not heating but is on:

- If an indicator light is on but the system remains cold, then you should contact your installer.

If the problem persists contact your installer.

**Note:** If Service due soon or service due appears in display please contact your landlord.



## TECHNICAL SPECIFICATIONS

Please refer to the installing instructions for any informations about, standards and product environment.

## i NOTE

In some instances the unit may have been set with the service interval function enabled. By Law in rented accommodation, your gas boiler should be inspected/serviced annually to ensure it is working correctly.

This option is designed to remind the end user to contact the relevant person to have the annual service carried out on the boiler.

This function will be enabled and programmed by your Installer, maintenance Engineer, or Landlord.

If it has been set to do so, the unit will display a message on the screen to remind you that a boiler service is due.

The Service Due Soon countdown will be indicated up to 50 days before the Service is due to allow time to arrange for an engineer to attend, normal functions will continue during this stage.

At the end of this service due soon period, the unit will go to Service Due OFF at which point only the 1hour boost will operate on TMR7 and PRG7, if the unit is a thermostat RT1/RT7, it will operate at 20°C during this hour.

If PRG7 RF and TMR7 RF, Thermostat has no function.

## ? WHAT IS A TIMER ?



...an Explanation for Householders. Programmers allow you to set 'On' and 'Off' time periods. Some models switch the central heating and domestic hot water on and off at the same time, while others allow the domestic hot water and heating to come on and go off at different times. Set the 'On' and 'Off' time periods to suit your own lifestyle. On some timers you must also set whether you want the heating

and hot water to run continuously, run under the chosen 'On' and 'Off' heating periods, or be permanently off. The time on the timer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time. You may be able to temporarily adjust the heating programme, for example, 'Advance', or 'Boost'. These are explained in the manufacturer's instructions. The heating will not work if the room thermostat has switched the heating off. And, if you have a hot-water cylinder, the water heating will not work if the cylinder thermostat detects that the hot water has reached the correct temperature.







[www.neomitis.com](http://www.neomitis.com)



NEOMITIS® LIMITED - 16 Great Queen Street, Covent Garden, London, WC2B 5AH UNITED KINGDOM  
Registered in England and Wales No: 9543404  
Tel: +44 (0) 2071 250 236 - Fax: +44 (0) 2071 250 267 - E-mail: [contactuk@neomitis.com](mailto:contactuk@neomitis.com)