# Glow·worm

## Instructions for Use

# Climapro
**Programmable Room Thermostat**

# Climapro RF
**Radio Controlled Programmable
Room Thermostat**



www.glow-worm.co.uk
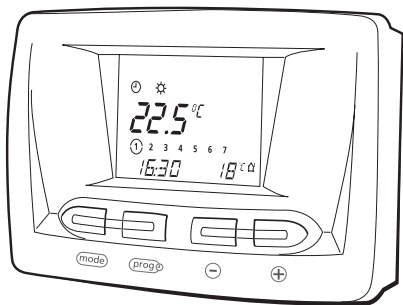
# General
## Customer Service:
01773 828100

## Technical Helpline:
01773 828300

## General and Sales enquiries:
Tel.   01773 824639
Fax:  01773 820569

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**The instructions are an integral part of the control and must, to comply with the current issue of the Gas Safety (Installation and Use) Regulations, be handed to the user on completion of the installation.**

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$C \, \epsilon$

*benchmark*

*The code of practice for the installation, commissioning & servicing of gas central heating*

# Contents

## Controls Description

The Climapro is a programmable room thermostat with separate 7 day programmes for heating and hot water.

This control gives you personalised heating comfort according to your requirements and will improve the energy efficiency of your heating system.

The modulating regulation built into this thermostat changes the temperature of the radiators to suit the desired ambient temperature.

Any other use is considered as inappropriate and is forbidden.

The manufacturer will not be responsible for any damage caused by another use. In that case the user shall be responsible.

## General

The installation and the commissioning of the control has to be carried out by a competent person who is responsible for the compliance of the installation and the commissioning according to current regulations.

Maintenance should be carried out by a competent person in accordance with the rules in force.

## Documents

Please keep this manual as well as any documents enclosed with it safe for future reference.

We accept no liability in case of damage due to the non-compliance of the instructions of the present manual.

## Cleaning

DO NOT use any abrasive cleaning products as they could damage the housing or plastic case.

Clean the case of the Climapro with damp cloth.

Make sure that no water goes inside the Climapro.

## Recycling

The Climapro comprises of many recyclable parts and should be disposed of according to the current WEEE regulations.

The packaging should also be disposed of according to the current regulations.

# Control Buttons



MODE BUTTON (mode)  
PROGRAMME BUTTON (prog)  
DISPLAY  
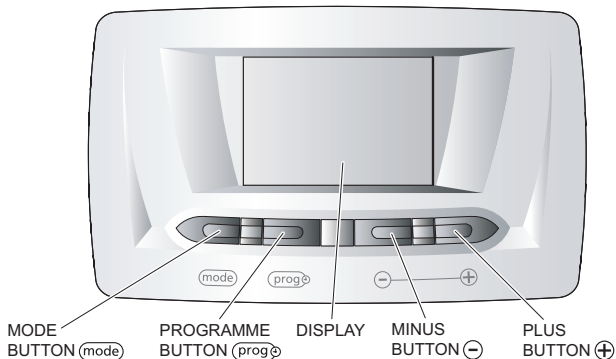MINUS BUTTON ⊖  
PLUS BUTTON ⊕

Diagram 1

# Main Display

The LCD will display the following as shown in diagram 2.
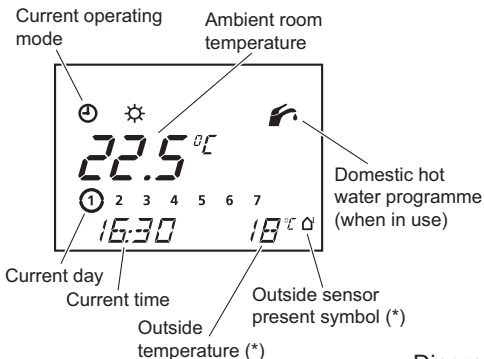(*) Display only possible if an outside sensor is connected to the boiler.



Current operating mode  
Ambient room temperature  
Domestic hot water programme (when in use)  
Current day  
Current time  
Outside temperature (*)  
Outside sensor present symbol (*)

Diagram 2

# Description of Buttons

| | |
|---|---|
| ☼ | Continuous Central Heating |
| ④ ☼ | Timed Central Heating |
| ◐ | Eco temperature |
| OFF | Appliance OFF |
| ▥ | Central Heating programme |
| 🚰 | Hot water preheat / timed hot water programme |
| 🚰₁ₓ | Domestic hot water advance (temporary override activated) |
| 🖐 | Manual override |
| ℗ | Programming menu |
| 🔧 | Installer menu |
| ⓘ | Information menu |
| 🧳 | Holiday mode |
| 𝟠𝟠.𝟠 ℃ △ | Outdoor temperature and sensor |
| 𝟠𝟠.𝟠 | Temperature / time period |
| ①②③④⑤⑥⑦ | Day of the week |
| 𝟠𝟠:𝟠𝟠 ▸ 𝟠.𝟠:𝟠.𝟠 ℃ | Date / time |

# Display Symbols

## (mode) **Button**

By pressing several times on the (mode) button, you will access the following settings, see table below.

## (prog⊕) **Button**

By pressing on the (prog⊕) button several times you can see the different programmes.

By pressing and holding for 5 seconds you can modify the heating programme.

## ⊖ **Button**

By pressing on the ⊖ button, you reduce the value of the setting.

## ⊕ **Button**

By pressing on the ⊕ button, you increase the value of the setting.

| Number of presses | Description |
|---|---|
| 1 | Choice of operating mode |
| 2 | Heating temperature setting "Comfort" |
| 3 | Heating temperature setting "Eco" |
| 4 | Adjusting the temperature of domestic hot water |
| 5 | Domestic hot water advance |
| 6 | "Holiday" function |
| 7 | Setting the day of the current week |
| 8 | Setting the time - hours |
| 9 | Setting the time - minutes |
| 10 | Setting the date |

**Mode button settings**

# Choosing the Operating Mode

| Symbol | Operating mode |
|--------|----------------|
| ⏲ | **Timed:** The heating will operate to the programmed on and off times ☼ Comfort or ◑ Eco. |
| ☼ | **Comfort:** Continuous heating on at Comfort (desired) temperature |
| ◑ | **Eco:** Heating on at Eco (minimum) temperature |
| *OFF* | **Off:** Heating is off but the domestic hot water is still operating at the set temperature. |

1. To change the operating mode, press (mode) once.

2. Press ⊕ until the desired mode flashes.

3. The setting is saved after 10 seconds or by pressing the (mode) button, which will then continue to the next setting.

# Setting the Comfort temperature

The comfort temperature is the temperature you require when the room is in use and the heating is on.

```
   ☼              ▥



 ▸ COMF    22.0℃
```

1. Press the (mode) button twice, the temperature will flash.

2. Use the ⊕ and ⊖ buttons to set the "Comfort" ☼ temperature, min. 5°C, max. 30°C, recommended 20°C.

3. The setting is saved after 10 seconds or by pressing the (mode) button.

## Setting the "Eco" temperature

The $ECO$ temperature allows you to set the minimum temperature of the room when not in use, e.g. at night
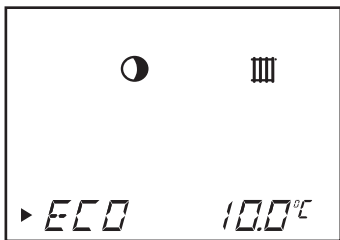


1. From the main display, press the (mode) button 3 times.

2. Use the ⊕ and ⊖ buttons to set the "ECO" ◗ temperature, min. 5°C, max. 30°C, recommended 15°C.

3. The setting is saved after 10 seconds or by pressing the (mode) button.

## Domestic hot water temperature adjustments

If you have a Glow-worm combination boiler, the domestic hot water temperature can be adjusted using the Climapro. If you have a system or open vent boiler with a domestic hot water cylinder this is controlled using the tank thermostat.

```
                                    🚰

    ▸ SAN          60.0℃
```

1. Press the (mode) button 4 times.

2. Use the ⊕ and ⊖ buttons to set the temperature of domestic hot water, min. 38°C, max. 65°C, recommended 60°C.

3. The setting is saved after 10 seconds or by pressing the (mode) button.

# Domestic hot water advance

This function allows you to advance the timed DHW programme. This function will stay activated until the end of the following programmed DHW timed period.
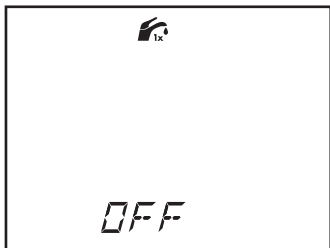


1. Press the (mode) button 5 times: OFF is displayed.

2. Press the ⊕ button to activate DHW advance: ON is displayed.

3. The 🚰 symbol is displayed.

   The function is active until the end of the following programmed DHW timed period. Once the end of the programmed DHW timed period is reached the DHW advance function is switched off automatically.

   To manually switch off the DHW advance function, press (mode) button 5 times.

   From the DHW advance display press the ⊖ button.

   OFF is displayed. The function is now deactivated.

## "Holiday" function

The Climapro has a "Holiday" function that enables you to set the number of days you are absent. The heating will automatically come on at your return, allowing you to return to a warm house. When the control is in the "Holiday" mode, the operating mode is set to OFF and the frost protection automatically activated.

```
      ▥

 ►    00

      OFF
```
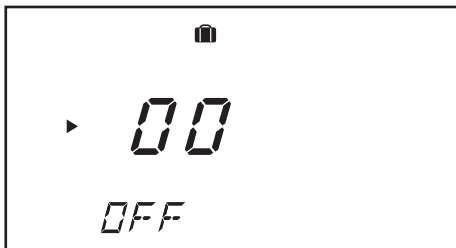
1. Press the (mode) button 6 times: the holiday duration setting *00* flashes for approximately 10 seconds.

2. Press the ⊕ and ⊖ buttons to select the number of days (1 to 99) during which you are absent.

The symbol ▥ is displayed.

3. The setting is saved after 10 seconds or by pressing the (mode) button to continue to the next setting.

4. The function is then activated for the number of days programmed. Once the programmed duration of the holiday has been reached, the "Holiday" function ▥ is automatically deactivated.

To deactivate the function, press once on the (mode) button and the symbol ▥ will no longer be displayed.

# Setting the day, time and date

**Setting the current day of the week**

1. Press the (mode) button 7 times.

2. Use the ⊕ and ⊖ buttons to set the current day of the week. The selected day flashes.

| | |
|---|---|
| ①= Monday | ⑤= Friday |
| ②= Tuesday | ⑥= Saturday |
| ③= Wednesday | ⑦= Sunday |
| ④= Thursday | |

**Setting the time**

1. Press the (mode) button 8 times.

2. Use the ⊕ and ⊖ buttons to set the current time.

3. Press the (mode) button. Use the ⊕ and ⊖ buttons to set the minutes.

4. The setting is saved after 10 seconds or by pressing the (mode) button to continue to the next setting.

**NOTE:** The "Yearly Calendar" will automatically switch between Summer and Winter.

**Setting the date**

1. Press the (mode) button 10 times.

2. Use the ⊕ and ⊖ buttons to set the current date: Day/Month/Year.

3. The setting is saved after 10 seconds or by pressing the (mode) button.

# Setting the 7 day central heating programme

The 7 day central heating programme allows you to select up to 3 "Comfort" heating timed periods for each day of the week. The control is factory set as shown in the table.

*Factory setting for time periods:*

| Time period | Day of the week / Day groups | | Start time | Stop time |
|---|---|---|---|---|
| [ 1 ] | ①②③④⑤ 6 7 | | 06:00 | 22:00 |
| | 1 2 3 4 5 ⑥ 7 | | 07:30 | 23:30 |
| | 1 2 3 4 5 6 ⑦ | | 07:30 | 22:00 |
| [ 2 ] | - | | - | - |
| [ 3 ] | - | | - | - |

The 7 day heating programme is only active in timed operating mode ④.

**NOTE:** If a 24 hour programme is preferred, contact the installer for further assistance.

## Setting the 7 day central heating programme

Up to 3 separate time periods can be programmed in one 24hr period for different days of the week.

**IMPORTANT:** The three time periods must not overlap.

For example:-

Mon. to Fri. ①②③④⑤

Time period  [ 1 ] Morning 5:30am - 7:00am

                 [ 2 ] Midday 11:00am - 1:00pm

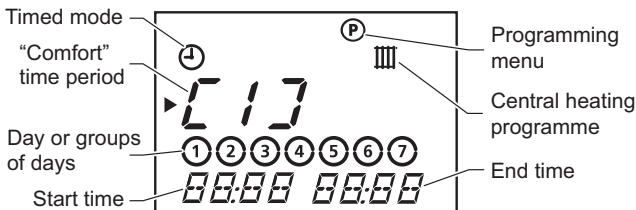                 [ 3 ] Evening 5:30pm - 10:30pm

Sat. Sun. ⑥⑦

Time period  [ 1 ] Morning 10:00am - 12:00pm

                 [ 2 ] Evening 5:00pm - 11:00pm

                 [ 3 ] Not used

## Setting the 7 day central heating programme



Timed mode
"Comfort" time period
Day or groups of days
Start time
Programming menu
Central heating programme
End time

1. Press the (prog) button for approximately 5 seconds.

2. The ▥ symbol flashes, press (prog) to confirm selection of central heating. The time period [ 1 ] is displayed flashing.

3. Press the (prog) button and using the ⊕ and ⊖ buttons choose the day of the week or the day groups for the selected time period according to your requirements.

4. Press the (prog) button and using the ⊕ and ⊖ buttons, choose the start time then the end time for the time period.

| Full week | ①②③④⑤⑥⑦ |
| --- | --- |
| From Monday to Friday | ①②③④⑤ 6 7 |
| Week-end | 1 2 3 4 5 ⑥⑦ |
| For each day of the week | ①, ②, ③, etc. |

5. Press the (prog) button once more to programme the following time period.

Repeat the previous programming steps.

6. To exit the programming menu, press the (prog) button for approximately 10 seconds.

## Setting the 7 day DHW heating programme

The domestic hot water heating programme will provide either a timed preheat function on a combination boiler, allowing a quicker response of hot water to the tap or timed hot water from a domestic hot water cylinder (system or open vent boilers).

The programme allows you to select up to 3 timed periods for each day of the week. The control is factory set as shown in the table.

*Factory setting for time periods:*

| Time period | Day of the week / Day groups | Start time | Stop time |
|---|---|---|---|
| [ 1 ] | ①②③④⑤ 6  7 | 06:00 | 22:00 |
|  | 1  2  3  4  5 ⑥ 7 | 07:30 | 23:30 |
|  | 1  2  3  4  5  6 ⑦ | 07:30 | 22:00 |
| [ 2 ] | - | - | - |
| [ 3 ] | - | - | - |

The programme is only active in timed operating mode ⏲.

**NOTE:** If you would like to switch to 24 hour only, rather than 7 day programming, contact a competent person.

## Setting the 7 day DHW heating programme

Up to 3 separate time periods can be programmed in one 24hr period for different days of the week.

**IMPORTANT:** The three time periods must not overlap.

For example:-

①②③④⑤

Mon. to Fri.

Time period   [ 1 ] Morning 5:30am - 6:30am

                [ 2 ] Midday 11:00am - 12:00pm
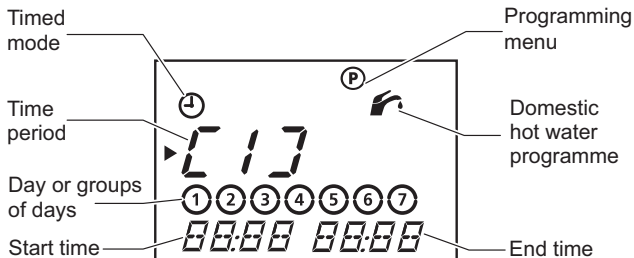
                [ 3 ] Evening 5:30pm - 8:30pm

Sat. Sun. ⑥⑦

Time period   [ 1 ] Morning 10:00am - 12:00pm

                [ 2 ] Evening 5:00pm - 9:00pm

                [ 3 ] Not used

## Setting the 7 day DHW heating programme



- Timed mode
- Programming menu
- Time period
- Domestic hot water programme
- Day or groups of days
- Start time
- End time

1. Press the (prog) button for approximately 5 seconds.

2. Press ⊕ to select the tap symbol, then press (prog), the time period "[ 1 ]" flashes. Select the time period that you would like to programme using the ⊕ and ⊖ buttons.

3. Press the (prog) button and using the ⊕ and ⊖ buttons choose the day of the week or the day groups for the selected time period according to the table below.

| Full week | ①②③④⑤⑥⑦ |
| From Monday to Friday | ①②③④⑤ 6 7 |
| Week-end | 1 2 3 4 5 ⑥⑦ |
| For each day of the week | ①, ②, ③, etc. |

## Setting the 7 day DHW heating programme

4. Press the (prog) button and using the ⊕ and ⊖ buttons, choose the start time then the end time for the time period.

5. Press the (prog) button once more to programme the following time period.

Repeat the previous programming steps.

6. Press for approximately 10 seconds on the (prog) button to exit the programming menu.
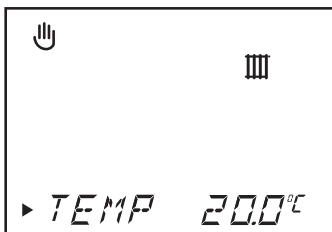
# Central Heating Temporary Override

This adjustment allows the modification of the set room temperature until the next temperature change in the heating programme.

This setting is only possible in timed operating mode �₄ .

1. From the main display, press the ⊕ or ⊖ buttons to display the set room temperature.

2. The symbol 🖐 is displayed and the previous set temperature flashes.

Press the ⊕ or ⊖ buttons to set the desired ambient room temperature, 5°C min. to 30°C max.

```
┌─────────────────────────────┐
│ 🖐                           │
│                        ▥    │
│                             │
│                             │
│  ▸ TEMP      20.0°C         │
└─────────────────────────────┘
```

3. The setting is saved after 10 seconds or after pressing the (mode) button.

At the next temperature change in the heating programme, the symbol 🖐 will no longer be displayed.

To make this setting void, press the (mode) button and the key message *OFF* will be displayed.

The main display will refresh after 3 seconds and the symbol 🖐 will no longer be displayed.

# Information menu

This function enables you to scroll through the Climapro's control menus.

Press the (prog) button once and the symbol (i) will be displayed on the following menus.

Press the (prog) button again to scroll to the next menu.

● Display of the set "Comfort" temperature value.

● Display of the set "Eco" temperature value.

● Displaying the value of the set DHW temperature.

● Display of the time zones set for the heating programme.

● Display of the date (if the function "Yearly Calendar" has been activated by your installer).

● Display of the control's commercial name.

After scrolling through the settings, leave the controller for 10 seconds and the display will revert to the main screen.

# Frost protection

Frost protection will operate when:

● The ambient temperature in the room where the appliance is installed falls below 3°C.

● The outside temperature falls below 5°C (protection possible only if an outside sensor is connected to the boiler).

● The "Holiday" 🛅 function is in use (see chapter "Holiday function").

● The control operating mode is set to $OFF$.

If the property is to be vacated for some time, please refer to the boiler literature.

**NOTE:** The boiler will operate out of timed periods to protect your home from frost damage and maintain the minimum (ECO) temperature.

# Battery Replacement

Climapro RF only:

When *"BATT"* appears on the display, the battery life span is equivalent to approximately one month.

```
⏱ ☼
20.5°C
     TH
BATT
```
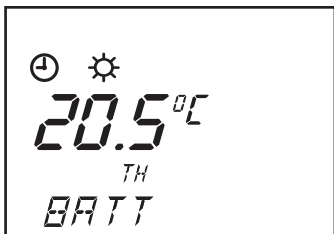
Comments:

If the batteries are not replaced in time, the boiler works without taking the room thermostat into account. Programme settings will not be lost.

- Clean the battery compartment before inserting new batteries.
- Do not mix new and used batteries of different types.
- Do not use rechargeable batteries.
- Never expose the batteries to excessive heat or a naked flame, never try to take them apart and make sure they are never short circuited.
- Do not keep the batteries in the controller. If electrolyte leaks and comes in contact with skin or clothing, rinse them immediately with water.

# Battery Replacement

To replace the batteries see diagram. Remove the controller from the back box with reference to the order of operation (A) to (C), carefully replace the batteries (D) respecting the polarity (direction of "+" and "-").
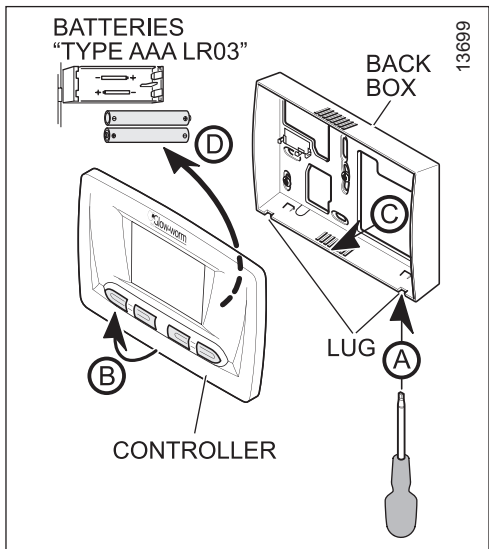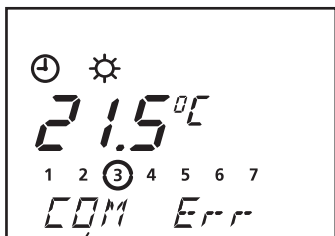
# Fault finding

**WARNING:**

The service or repair of the control must only be undertaken by a competent person.

In the event of a fault, a message will be displayed in the multifunctional display zone, see diagram and the appropriate table overleaf.
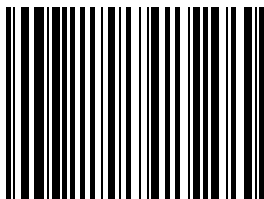


Multifunction display zone

# Fault finding

## Climapro

| Display | Fault | Corrective action |
|---------|-------|-------------------|
| The display is off | Power supply failure | Check the power supply from the network. Check the power supply to your home with your provider. Check the cable and connection between control and boiler. Check that the boiler is switched on. |
| *COM Err* | Communication error between the boiler and Climapro | Please contact your Installation/Servicing company or Glow-worm service. |
| *BMU Err* | Boiler fault | Refer to the Fault finding section (boiler fault codes) within your Installation and servicing literature supplied with your boiler. |
| If any of the above faults persists, call your Installation/Servicing company or Glow-worm service | | |

# Fault finding

## Climapro RF

| Display | Fault | Corrective action |
|---------|-------|-------------------|
| The display is off | The batteries are not operating the appliance. | Check that:<br>- The batteries have not been correctly installed in their compartment. Re-install batteries in their compartment.<br>- The polarity of the batteries is correct.<br>- The batteries have no charge.<br>If this is the case, replace them with new batteries. As soon as the power supply has been established, the appliance automatically turns on. |
| *BATT* | Battery power level low. | Replace the batteries, see section 2.15 battery replacement. |
| *COM Err* | Communication error between the boiler and the radio receiver. | Please contact your installer or Glow-worm sevice. |
| *RF Err* | Communication error between the radio receiver and the room thermostat. | Check that there is no power "interruption" and the boiler is connected correctly and switched on. As soon as the power supply has been re-established, the appliance automatically turns back on. |
| *BMU Err* | Boiler fault | Refer to the Fault finding section (boiler fault codes) within the Installation and servicing literature supplied with your boiler. |
| If any of the above faults persists, call your Installation/Servicing company or Glow-worm service | | |

||||| |||| ||| ||||| |||||| |||||

0020071550

**Glow-worm**
Nottingham Road, Belper, Derbyshire.
DE56 1JT

*Because of our constant endeavour for improvement, details may
vary slightly from those shown in these instructions.*