

T.015.02 - PROGRAMMER WITH TEMPERATURE CONTROL

INSTALLATION INSTRUCTIONS

SPECIFICATION

Power Supply: 220/240V AC, 50Hz
Total Input: 3A
Contact Rating: 3(1)A
Disconnection: 1B

Room temperature: 0-35°C
Battery type: 3v Lithium Button CR2032
Battery Reserve (programme): 30 Days
Cabinet protection Class: IP20

This unit is designed for fixed wiring only to comply with I.E.E. regulations and should be installed by an expert electrician. It is only suitable for use in normal conditions.
Mains input must have a 3amp fuse.

BEFORE INSTALLATION

- Set switch on back of unit to **P** or **G** according to the type of system to be controlled.
 - P** - Fully PUMPED system allowing independent control of Central Heating and Hot Water.
 - G** - GRAVITY fed hot water system which does not permit heating to be on without hot water. It is possible to have hot water without heating.
- Set switch on back of unit to 5/2 or 7D or 24H. This configures programmer as follows:
 - 5/2: 5day/2day programmer option allows different ON/OFF times at weekend.
 - 7D: 7day programmer option allows different ON/OFF times for each day of the week.
 - 24H: 24hour programmer option runs same programme every day.
- By setting the jumper switch on the back of the unit to 5°C allows the unit to come ON automatically when the room temperature falls below 5°C.
- By setting the **TEMP** Jumper switch on the back of the unit to **TEMP**, allows the unit to be controlled by temperature setting within the selected programmed periods. This feature is optional and by removing the Jumper will cancel temperature control. The battery must be fitted into back of unit to ensure times and programme settings are maintained during temporary power interruption (polarity as marked)

DIRECT PLUG-IN UPGRADE FOR EXISTING PROGRAMMERS

Programmer can be connected directly onto existing wall-plates of following programmers without any rewiring by following the procedure below. Otherwise fit new wall-plate supplied and refer to wiring interchange guide.

Manufacturer	ACL	Danfoss Randall	Drayton	SUNVIC	Landies & Gyr	Potterton	Glow-Worm
Model	LP112, LS241, LS522, LS722, LP241, LP522, LP722	FP72, FP15, CP72, CP15	Tempus 3 & 4 & 7	Select 207	RWB2, RWB2.9, RWB102, RWB200, RWB252, RWB20, RWB40	Mliniminder	Mastermind

- Switch off mains.
- Loosen two securing screws on old programmer and unplug it.
- Check existing wall-plate has been correctly fitted (see section Fitting Wallplate)
- Insert T.015.022 programmer into wall-plate and re-tighten screws.
- Switch on at mains.
- Press **RESET** button located behind the flip-down fascia panel then set timing and programme as detailed in user guide.

WIRING INTERCHANGE GUIDE

When replacing any of the below with your T.015.022 programmer, fit new wall-plate and follow the connection details shown. Whilst every effort is made to ensure accuracy of the instructions given, you will appreciate that discrepancies may occur due to various reasons outside our control (see attached sheet).

FITTING WALL-PLATE

Position the wall-plate (terminals along top edge) with 60mm (min.) clearance to its right, 24mm (min.) above, 90mm (min.) below. Ensure that the supporting surface will fully cover the back of the programmer. The ideal location would be 1.4M above floor level, easily accessible, reasonably flat and free from condensation due to very low temperatures. Fix the wall-plate to a flush mounting single conduit box type UA1 (BS4662) using M3.5 x 14 bolts.

Ensure that the wiring to the wall-plate terminals leads directly away from the terminals and is completely enclosed within the wall-plate aperture. Wire ends must be stripped and screwed to the terminals so that minimal bare wire is showing.

If the unit is fitted to a metal surface, IT IS ESSENTIAL that the metal be earthed.

DO NOT use a surface mounting box.

Ensure the mains supply is switched off then make wiring connections. This unit requires no earth connection but ensure continuity of earth throughout system.

After wiring, plug unit into wall-plate and tighten the securing screws.

Switch on at mains

Press **RESET** button then set timing and programme as detailed in user guide. Remember to use a non-metallic tool when pressing **RESET**.

NEVER fit or remove the unit to a live wall-plate.

USER INSTRUCTIONS

INTRODUCTION

The T.015.022 central heating programmer can automatically switch your central heating and hot water ON and OFF independently three times a day at whatever times you choose.

During installation the installer can select either 24 hour or 5 day/2 day or 7 day programming options via 3 position switch on back of unit (see Installation Instructions).

24 hour programmer option runs same programme every day.

5 day/2 day programmer option allows different ON/OFF times at weekend.

7 day programmer option allows different ON/OFF times for each day of week.

PRESET PROGRAMME

For convenience, the programmer has a pre-set programme which for many people is perfectly satisfactory but it can be changed quite easily (see section TO CHANGE PRESET PROGRAMME).

Pre-set programme (same for central heating and hot water) can be used by pressing **RESET** button (use non-metallic pointed tool for this) and is as follows:

- The T.015.022 gives you 5 options for both CH and HW programme period.

OFF: Off all the time

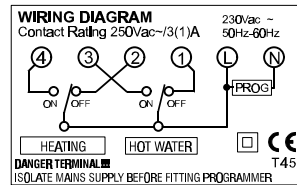
1: On for one periods a day

2: On for two periods a day

3: On for three periods a day

ON: On all the time

INTERNAL WIRING:



SWITCHES	MON-FRI PROGRAMME		SAT-SUN PROGRAMME	
	CH	HW	CH	HW
ON1 - Start of first "ON" period of day	6:00	6:00	6:00	6:00
OFF1- End of first "ON" period	8:30	8:30	8:30	8:30
ON2- Start of second "ON" period	12:00	12:00	12:00	12:00
OFF2- End of second "OFF" period	14:00	14:00	14:00	14:00
ON3 - Start of third "ON" period	16:00	16:00	16:00	16:00
OFF3 - Final switch off	22:00	22:00	22:00	22:00

TO SET TIME AND DAY

- Move the switch to **TIME SET**, SET icon will appear and start flashing
- Press **DAY** button to select day of week.
- Press **TIME + / TIME -** to adjust time. Time will change quicker if pressed continually.
- Move the switch to **RUN** or **PROG SET** if you want to change programme ON/OFF times.

TO CHANGE PRESET PROGRAMME

- Move switch to **RUN** position.
- Press **CH PROG/HW PROG** button to review each period of Central Heating/Hot Water.
- Wait for 10 seconds or press **CH PROG/HW PROG** to return to normal display.

SELECT PROGRAMME PERIOD

Press **CH SELECT/HW SELECT** buttons to select programmed periods to OFF, 1, 2, 3, or ON.

TO CHANGE PROGRAMME TIMES

Central Heating and Hot water can have independent programmes which can easily be changed to suit your lifestyle.

To change Central Heating: Move switch to **PROG SET**. First ON time appears and SET icon will start flashing when switch is on **PROG SET**.

- Press **TIME+/TIME-** to change ON time.
- Press **CH PROG**, first OFF time appears and SET icon will start flashing, then press **TIME+/TIME-** to change OFF time.
- Press **CH PROG** again, second ON time appears and SET icon will start flashing, then press **TIME+/TIME-** to change second ON time.
- Repeat above steps to complete all desired changes of Central Heating.

To change Hot Water: repeat above steps using the **HW PROG** for hot water changes.

To return to normal run state move slider switch to **RUN**.

- If unit is installed as a 7 day programmer the initial programme displayed will be for Monday for Central Heating. You can go to any day of week by pressing

CH PROG or **HW PROG** button repeatedly. The ON/OFF times can be changed for each day as above.

- If unit is installed as a 5 day/2 day programmer the initial programme displayed will be from Monday to Friday. Pressing **CH PROG** or **HW PROG** button

will take you to programme for Saturday and Sunday. The ON/OFF times can be changed for each day group as above.

ADVANCE FUNCTION

This function is only applicable when your programmer is set with at least 1 ON/OFF period. You can temporarily override the normal switching times by pushing the button marked **ADVANCE**. This switches ON to OFF or OFF to ON as you require, but the normal programme switching times will not be permanently affected. To cancel **ADVANCE** by pushing button marked **ADVANCE** again. An icon of ADV will appear on display indicating **ADVANCE**.

USING +1...3 HR (also known as "boost")

The button marked **+1...3 HR** will control the start mode for 1 to 3 hours in the OFF mode, or extend by 1 to 3 hours while ON. To cancel, just press **+1...3 HR** again. When **+1...3 HR** is in operation a count down clock will appear. Then normal display and count down clock will appear on the LCD alternately. When **+1...3 HR** bring the unit on one hour to 3 hours in OFF, clock will count down immediately. When **+1...3 HR** extend by one hour to 3 hours while ON, clock will count down after the programmed ON is finished. Please note **+1...3 HR** will also work when the unit is in any OFF position.

5°C FROST PROTECTION OPTION

There is a frost protection jumper switch marked 5°C on the back of unit. This will bring the unit on automatically in OFF when the unit is in the OFF position when room temperature is below 4.5°C. Once the room temperature rises to 5.5°C the unit will switch off. You cancel this function by removing jumper, then **RESET**.

TEMPERATURE CONTROL OPTION

There is a Jumper switch at the position marked **TEMP** on the back of unit. This allows the unit to be on or off according to the room temperature in any programmed on periods and ON position. To use this function, press both **TIME+** and **TIME-** for a while, the initial temperature is at 21°C and SET icon will appear on the LCD. If you wish to keep this temperature, wait for 5 seconds to let the display return to normal display.

N.B. It is important that if you intend to use the **TEMPERATURE CONTROL OPTION** the unit must be installed where you have a controlled temperature.

If you want to change the set temperature, press **TIME+** to increase temperature and press **TIME-** to decrease temperature. To cancel this function remove Jumper switch, then **RESET**.

BACK LIGHT OPTION

This unit has a back light display option. You can choose between **AUTO** and **ON**. By pressing the **DAY** button for a while, this will review the back light setting. Press **DAY** in order to select back light **AUTO** or always **ON**. Display will appear **bl:A** and **bl:On**. When display appears **bl:A** means **AUTO**, back light will turn on for 30 seconds after pressing any button, then will turn off. When display appears **bl:On** means back light will be always on.

There are two LEDs to indicate Hot Water on and Central Heating on.

Please note that there is a SET icon appears and flashes during any change of setting. After making the change, SET icon will disappear. It means new data will be stored and unit will perform according to new data.

POWER INTERRUPTION

If there is a mains supply failure the back up battery will ensure the programmer will continue working and will maintain the time up to 30 days. After when power comes back it will then be necessary to set time and day once more.

- Rear mounting flange to physically change directly the competitor models 6-pin
- LCD display to indicate clearly the day, time, AM/PM, ON/OFF, room temperature.
- 2 LED lights in different colours to show ON - hot water - heating.
- A mechanical option is accessible by the installer only to ensure the hot water ON functioning with the heating ON (choose the switch for the complete or gravity pumping system).
- 3 daily programmes with times already inserted. Every period programmable by the end user.
- Manual choice of daily, weekly, weekend, 7-day programmes. Weekly programme for both channels.
- A switch accessible by the user to bring forward a period ON when the programme is OFF and viceversa without changing the programmed periods for both channels.

- A switch accessible by the user to extend a programme that already exists of a minimum of 1 hour to a max. of 8 hours with 1 hour intervals or to create a period ON when the programme is OFF for both channels.
- Rechargeable battery with memory back-up.
- Automatic start-up of heating when the room temperature goes under 5°C.
- Temperature control option to allow the user to programme the temperature for heating control.
- Room temperature 50°C.
- Switch contacts 6A (3A).