

GENERAL

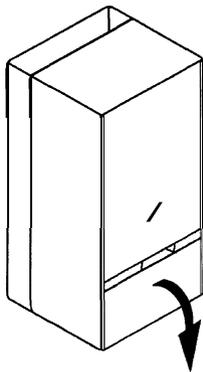
Installation of this appliance must be carried out by a competent installer who will install it according to proper norms and procedures.

The installation of this appliance must be in accordance with a relevant requirements of the Gas Safety (Installation & Use) Regulations (1984), the Local Building Regulations, the by-laws of the local water undertaking, and in Scotland, in accordance with the Building Standards (Scotland) Regulation. Health and safety document No. 635 "Electricity at work regs. 1989". In order to take full advantage of the quality built into your boiler, we suggest that you consult the manual before use.

Keep this guide and the manual handy since you may need in the future.

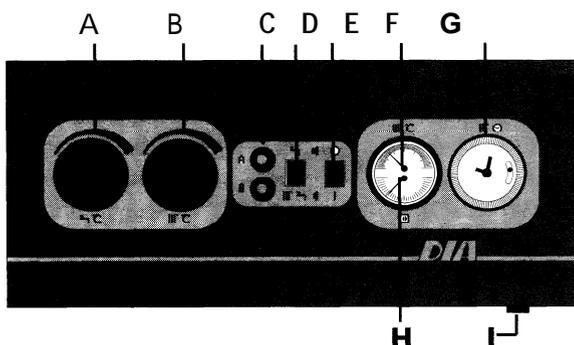
The boiler has been designed for supplying your central heating and domestic hot water directly.

GAINING ACCESS TO THE CONTROL PANEL



To reach the control panel rotate the small panel as indicated in figure.

CONTROL PANEL



- A Domestic hot water temperature control
- B Central heating temperature control
- C Red warning light
- D Summer/Winter switch
- E On/Off switch with neon light
- F Central heating temperature gauge
- G Central heating time control clock (for the time clock instruction refer to the following instruction)
- H Water pressure gauge
- I Safety thermostat reset

TO OPERATE THE APPLIANCE

Before lighting the appliance, check central heating system pressure.

It must be at least 1.5 bar gauge.

If it is below this do not light the appliance but consult your installer for checking and refilling the system.

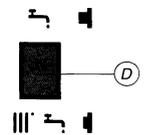
LIGHTING THE APPLIANCE

Ensure that gas supply cock, c.h. cocks and d.h.w. cock (located on the bottom of the appliance) are open.

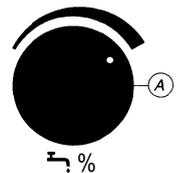
Switch on the mains electricity.

OPERATING DOMESTIC HOT WATER

Press the function switch "D" on position

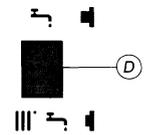


Adjust the temperature turning the knob "A" clockwise to raise or anticlockwise to lower.

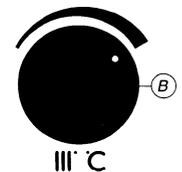


OPERATING HEATING + DOMESTIC HOT WATER

Press the function switch "D" on position

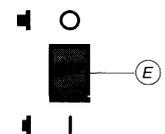


Adjust the temperature turning the knob "B" clockwise to raise or anticlockwise to lower.



TO SHUT DOWN THE APPLIANCE

Press the function switch "E" on position "0".



FLAME FAILURE RESET

If the flame does not ignite, the red warning light "C" will come on.

To turn on again, press the red warning light "C".

If the flame still does not ignite, remove the cap on safety thermostat reset "I" and press the push button.

If, after several attempts, the flame still does not ignite, call an Authorised Service Centre.

User's guide

ELECTRICITY SUPPLY

Warning - This ***appliance must be earthed***

This appliance requires a 230 V- 50Hz supply and should be protected by a 3A fuse.

To connect a plug

As the colour of the wire in the mains lead of the appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- the wire which is coloured green and yellow must be connected to the terminal in the plug which is marked which letter E or by the symbol \oplus or coloured green or green and yellow;
- the wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black;
- the wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

CLEANING OUTER CASING

Use a damp cloth.

Do not use abrasive cleaners.

Control panel can be wiped with damp cloth and dried.

Spray polishes must not be used on control panel surface or knobs.

Care must be taken in preventing any liquid entering the appliance.

CARE OF APPLIANCE

It is good practice to clean and service the appliance and central heating system every year.

Call an Authorised Service Centre.

IN THE EVENT OF OPERATING FAILURE

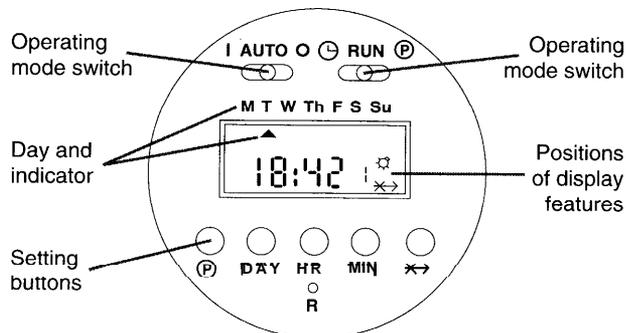
If there is a faulty with the appliance it must not be used until the fault is rectified by an Authorised Service Centre.

For more detailed instructions please consult the manual supplied with your appliance.

Time clock user's guide

The timer fitted to your boiler allows you to control the times of your central heating periods only. Domestic hot water will always be available provided the boiler is switched on. The timer display (24 hr clock) provides a permanent display of the time of day and day of the week. If the boiler is switched off or its power supply interrupted, a built in battery will operate the display and protect the programme of operating times etc.

TIMER CONTROL



Operating mode switch (I AUTO 0)

- 1 Set the switch to **I** and the timer is permanently on, this provides a continuous central heating "on" period, overriding any other programme. This setting is useful if you come in late in the evening and the central heating is "off". Do not forget to reset the switch to **AUTO** when going to bed or when the house was warmed up. A symbol appear in the display whenever the operating mode switch is set to **I** to remind you that it is "on".
- 2 Set the switch to **0** and the timer is permanently "off" - no central heating.
- 3 Set the switch to **AUTO** and your central heating will operate during your pre-set periods.

Timer setting switch (⊖ RUN ⊕)

- 1 Set the switch to **⊖** and the time of day and day of the week can be set using the **HR**, **MIN** and **DAY** buttons as described below.
- 2 Set the switch to **⊕** and the "on" and "off" times for the central heating can be set as described below.
- 3 Set the switch to **RUN** and your pre-set programme will start.

⊕ button - Use this button to select the switching modes when setting your central heating periods. A symbol will appear at the right hand side of the display when a switch "on" mode is selected, this will disappear when a switch "off" mode is selected. A number (1 to 16) also appears in the display next to the symbol, this indicates the number of the switching mode.

Up to sixteen "on", "off" switching modes can be selected.

DAY button - Use this button to select the day of the week when setting the timer. You also use this button to select "groups" of days when setting your central heating periods.

An arrow is continuously visible on the display to indicate the day of the week.

When setting the operating times and choosing the "groups" of day, the arrows appear under each day in the "group", these revert back to the single arrow under the day of the week after setting timer.

When using the day button, keep press/releasing it and the arrow under the day of the week will advance through the days, after the single day of the week the "groups" of days will appear.

Five days (Monday to Friday), then week-ends (Saturday and Sunday).

Then six days (Monday to Saturday), then as seven days. If the button is pressed again the arrow disappears, press it again and it will reappear under Sunday. If the button is kept pressed in it will quickly advance through the above sequence.

HR button - Use this button to set the hours for the time of day and the "on", "off" times.

Keep the button pressed in to advance the time rapidly, then press/release it for individual hrs.

MIN button - Use this button to set the minutes, in the same manner as the **HR** button previously described.

↔ button - Use this button to select the "skip" function, which will cause the timer to skip the next days programme commencing at midnight. I.e. The central heating will be off for 24 hrs unless overridden by setting the operating mode to switch to **I**. It will revert back to normal operation the following midnight.

The **↔** sign is displayed when the skip function is selected. During the 24 hrs that the skip function is operating the **↔** sign will disappear and the arrow indicating the day will flash.

If required a second 24 hr skip period can be selected during the skip day by pressing the **↔** button again.

R button - Use this button to clear any previous programmes from the memory. Use the tip of a pencil to press the button. The display will reset to 0.00 and Sunday will be selected. The display will flash until the timer setting switch is set to **⊖** to set the timer.

TO SET THE TIMER

- 1 Press the **R** button to clear any previous programmes from the memory. The display will reset and start to flash.
- 2 Set the time of day and day of the week as follows:
 - a Set the timer setting switch to **⊖** and the display will stop flashing.
 - b Press the **HR** and **MIN** buttons to set the actual time of day (24 hr clock).
 - c Press the **DAY** button to set the actual day of the week.

The current time of day and day of the week are now set in the timers memory.

- 3 Set the switch "on" and switch "off" times for your central heating periods and the group of days of the week in which you wish them to operate as follows:
 - a Set the timer setting switch to **⊕**. The display changes to 0.00 with the first switching mode ready

Time clock user's guide

to be set, (the ☼ symbol will appear in the display to indicate that you are setting a switch on mode. A number 1 will also appear to indicate that it is the first switching mode).

- b Keep pressing the **DAY** button until the required group of days is selected.
 - c Press the **HR** and **MIN** buttons to set the actual time for beginning of the first heating period.
 - d Press the Ⓢ button again to set the second switching mode (the ☼ symbol will disappear from the display to indicate that you are setting a switch "off" mode. A number 2 will also appear to indicate that it is the second switching mode).
 - e Keep pressing the **DAY** button until the required group of days is selected.
 - f Press the **HR** and **MIN** buttons to set the actual time for the end of the first heating period.
 - g Operations 0 to 1 can be repeated to give you up to eight heating periods in the selected group of days. You do not need to use all of the switching modes.
- 4 With the timer setting switch still at Ⓢ, continue pressing the Ⓢ button to check your settings. Ensure that you have set a switch off mode after each switch on mode and that the times do not overlap. Set the timer setting switch to **RUN** and the operating mode switch to **AUTO**.
- The timer will now automatically control the boiler to provide central heating during the operating periods you have just set.
- The ☼ symbol will appear in the display whenever the timer is operating during an "on" period.

USEFUL TIPS AND TYPICAL SETTINGS

When setting the times for the heating periods it is useful to remember that it might take up to an hour for the house to become warm, especially in colder weather. Also the effect of the central heating will remain for a time when the central heating is turned off.

A typical timer setting for a working family could be as follows:

A group of five days (Monday to Friday) set with the first heating period set to come on at 6:00 and off at 8:00; then the second period set to come on at 16:00 and off at 22:00. A second group of two days (Saturday and Sunday) set with the first heating period to come on at 8:00 and off at 10:00; then the second period set to come on 16:00 and off at 23:00.

Do not forget that if you require heating during a central heating off period, simply set the operating mode switch to **I**, remember this switch must be reset to **AUTO** at a later date for the timer to return to its programmed settings.

Manufacturer : Merloni TermoSanitari

importer : MTS (GB) LIMITED
MTS Building, Hughenden Avenue, High Wycombe
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Time clock user's guide

Operating the time switch

The step marked with the symbol "▶" are necessary to carry out a switching program.

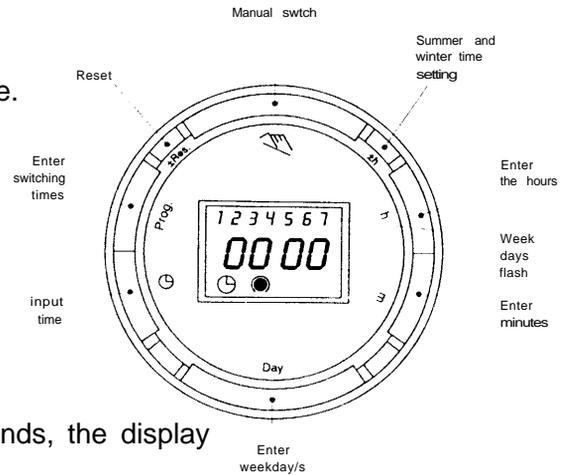
Preparing for Operation

- ▶ Activate the "Res" switch (=RESET) to reset the time switch to its default setting (activate using a pencil or similar pointed instrument). Do this:
 - every time you wish to "reset" the time switch
 - to erase all switching times and the current time of day.
 After approximately two second the following display appears:

Enter current time and weekday

- Keep the "⌚" key pressed down
- During the summer time period press the +/- 1 h key once.
- Enter the hour using the "h" key
- Enter the minutes using the "m" key
- Enter the day using the "Day" key
- 1 = "Monday" 7 = Sunday
- Release the "⌚" key

The colon now blinks once a second.



Notes:

If you keep the "h" and "m" keys pressed down for more than 2 seconds, the display will enter fast-forward scroll mode.

Entering the switching times

You have 20 memory locations available. Each switching time takes up one memory location. Keep pressing the "Prog" key until a free memory location is shown in the display "- :- -".

Programme ON or OFF with the "☞" key:

"○" = OFF; "●" = ON

Enter the hour using "h"

Enter the minutes using "m"

If a switching command is to be carried out every day (1 2 3 4 5 6 7) then store using the "⌚" key, otherwise select the day(s) it is to be carried out by using the "Day" key.

When the day selection is left blank, the programmed switching instruction operates at the same time every day

1 2 3 4 5 6 = Monday – Saturday

1 2 3 4 5 = Monday – Friday

6 7 = Saturday – Sunday

Selection of single days: 1 = Mon. 2 = Tues.

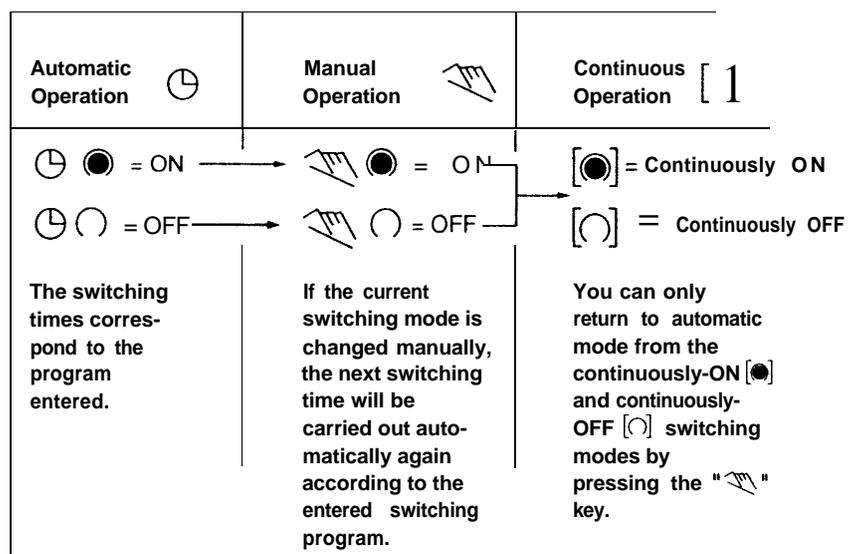
Save the switching time with the "⌚" key.

The time switch enters the automatic operating mode and displays the current time of day.

Begin any further entry of a switching time with the "Prog" switch. If your entry is incomplete, the segments not yet selected will blink in the display.

After programming is completed, and you return the timeswitch to the current time display with the "⌚" key, the timeswitch will not activate any switching instruction required for the current time. You may need to manually select the desired switching state with the "☞" key. Thereafter, as the unit encounters further switching instructions in the memory in real time, it will correctly activate all subsequent switching instructions.

Time clock user's guide



Manual Override Switch ""
 With the "" you can change the current switching setting at any time. The switching program already entered is not altered.

Reading the programmed switching times

Pressing the "Prog" key displays the programmed switching times until the first free memory location appears in the display "-- : -".

If you now press the "Prog" key once again, the number of free memory locations will be displayed, e.g. "FR18". If all memory locations are occupied, the display "FR00" appears.

Changing the programmed switching times

Press the "Prog" key repeatedly until the switching time you want to change is displayed. You can now enter the new data. See point 'Entering the switching times'

Notes on storing switching times:

If you end your entry of the switching times by pressing the "Prog" key, then the switching time you have entered will be stored and the next memory location displayed. Entry of further switching times is also carried out as described in point 'Entering the switching times'

In addition, a complete switching command is stored automatically after around 90 seconds provided **no other** key is pressed. The time switch then enters the automatic operating mode and displays the current time again.

Deleting individual switching times

Press the "Prog" key repeatedly until the switching time you wish to delete is shown in the display. Then set to "- -" using the "h" or "m" key and keep the "" key pressed down for around 3 seconds. The switching time is now erased and the current time is displayed.

AM / PM time display

If you press the "+/-1 h" and "h" keys at the same time, the time display switches into the AM/PM mode (mostly used in English-speaking countries).

Technical data

Connection	see unit imprint
Switching capacity	see unit imprint
Ambient temperature	-10°C to +55°C
Running reserve	5 h at + 20°C
Memory locations	20
Shortest switching time	1 min.
Programmable	every minute

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