



# Vokèra

DOMESTIC HEATING APPLIANCES



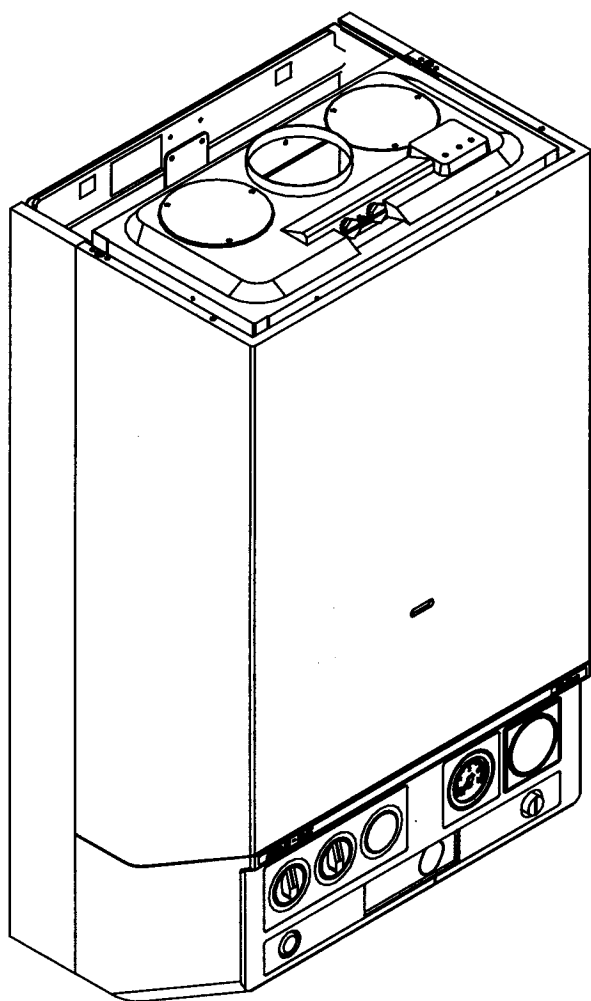
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# Mynute 28/96SE

## Users Instructions



86



Tested and Certified  
63 AP 0640 (N/G)  
63 AQ 0640 (LPG)

British Gas Service Listed  
G.C. No. 41 094 08

**HAND THESE  
INSTRUCTIONS  
TO THE USER**

**BEFORE ATTEMPTING TO LIGHT APPLIANCE PLEASE MAKE SURE THAT IT IS CHARGED UP WITH WATER WITH THE NEEDLE POINTING AT 1bar ON THE PRESSURE GAUGE (3)**

Gas Safety (Installation and Use) Regulations 1994

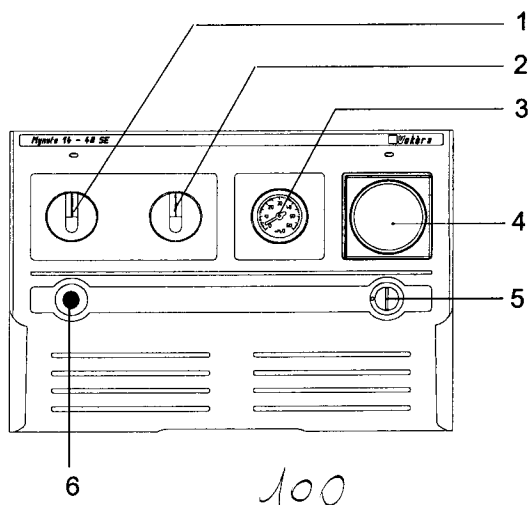
In your own interests and that of safety, it is the law that all gas appliances are installed and serviced by a competent person in accordance with the above regulation.

**GAS LEAK OR FAULT**

IF A FAULT OR GAS LEAK IS SUSPECTED, TURN OFF THE APPLIANCE AND CONTACT YOUR INSTALLATION COMPANY OR LOCAL GAS REGION.

**INTRODUCTION**

Your Vokera Mynute is a central heating boiler, and with the addition of an indirect hot water cylinder it can supply stored hot water.



**Boiler Location**

- Clearances
- Minimum - above casing 225mm (9in)
  - Minimum - below casing 150mm (6in)
  - Minimum - In front 600mm (24in)
  - Minimum - At sides 25mm (1in) from casing

If the appliance is fitted in a compartment it should not be used as a storage cupboard (e.g. for food).

**NEVER HANG CLOTHES ETC. OVER THE APPLIANCE.**

- 1. Mode Selector Switch
- 2. Thermostat Control Knob
- 3. Pressure Gauge
- 4. Time Clock Aperture (Optional)
- 5. High Limit Reset Button
- 6. Lockout Reset Button

**ELECTRICITY SUPPLY**

**WARNING: THIS APPLIANCE MUST BE EARTHED**

Connection should be made to a 230v ~ 50Hz supply. The appliance must be protected by a 3amp fuse if a 13amp (BS 1363) plug or fused spur is used.


To connect a plug:  
As the colour of the wires in the mains lead to this 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 with the letter E or by the earth symbol  $\perp$  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.

**1.0 Lighting the boiler.**

- 1.1 Switch on the electrical supply at the mains isolated point.
- 1.2 Ensure the gas supply to the appliance is turned on.
- 1.3 Turn the mode selector switch (1) to 
- 1.4 Should the appliance have either an internal time clock or external controls i.e. room thermostat, ensure that they are turned on and are calling for heat. The appliance will now go through an ignition sequence and the burner will light.

NOTE: Certain external timers and controls may over-ride the mode selector switch (1). In this case use the external timer or control to operate the appliance/system and leave the mode selector switch in the  position.

- 1.5 Should the appliance fail to ignite and the lockout reset button (6) illuminates, press the lockout reset button (6) once to restart the ignition process.
- 1.6 Adjust the Central heating temperature control (2) to suit the weather conditions.

**N.B** (i) For the quickest heat up of the premises the highest setting is needed at first, turning down later.

(ii) When Room Thermostats are used it may be best to leave the boiler thermostat at a high setting and set the room thermostat as required.

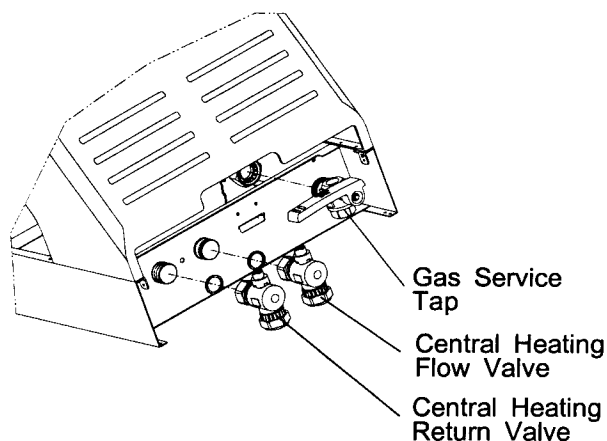
**3.0 SAFETY LIMITS**

**3.1 Systems pressure**

The water pressure gauge (3) must read between 10 and 15 mH<sub>2</sub>O (1 - 1.5bar) when the system is cold. Leaks or radiator venting will reduce this. Call in your service installer if excessive topping up of the system to restore pressure is necessary. A built-in safety valve operates if boiler pressure exceeds 30mH<sub>2</sub>O (3bar) whether hot or cold. If the safety valve operates (water/steam discharges to drain) switch off and call your Installer or Service Engineer.

3.2 If the appliance water temperature rises too high, a high limit thermostat operates to extinguish the burner. This may be reset by unscrewing the black cap (5) and pressing the reset button. If the cut out operates again, the appliance must be checked by a competent person, before relighting.

**N.B.** The central heating flow and return valves have an indicating line marked on the square shank, the line is horizontal when closed and vertical when open. Leave in the vertical (open) position.



**3.0 SHUTTING DOWN THE SYSTEM**

For short periods:

Turn the mode selector switch (1) to 'O' (If external controls are over-riding the mode selector switch, switch these controls to the off position).

For longer periods also:

Turn off gas cock and  
Turn off main electricity supply to boiler.

However, if the building is vacated when there is risk of freezing shut down the boiler as described and drain the system: Open all heating radiator valves and drain through the cocks usually provided at the lowest point of the system. To ensure draining of radiators open radiator air cocks remembering to close them when the operation is complete.

Alternatively, install a frost stat and leave the mains electricity and gas supply turned on.

**N.B.** Refilling a sealed system must be undertaken by a competent person following approved procedures.

**4.0 RELIGHTING THE BOILER**

Relight by following steps 1.0 to 1.6 given previously, after ensuring that refilling of the sealed system has been carried out.

**5.0 CLEANING THE OUTER CASE**

Use a clean damp cloth. Do not use abrasive cleaners.

**6.0 SPARE PARTS AND SERVICING**

Your Vokera Mynute must be serviced annually. Please contact your local Vokera Service Agent, your local Gas Region or a competent Installer.

## VOKERA TIME CLOCKS

### MECHANICAL 24 HR VERSION

#### Setting the time.

The time of day can be set by grasping the outer edge of the black dial and turning it in a clockwise direction until the correct time is in line with the white pointer.

#### Setting the 'switching times'

The 'ON' periods are set by sliding the green tappets, adjacent to the time periods required, to the outer edge of the dial.

The tappets that remain at the centre of the dial will be the 'OFF' periods.

**N.B.** The smallest switching time (ON or OFF) is 15 minutes.

To select 'Timed' mode move the selector switch in the middle of the clock face to the  $\odot$  position.

To select 'Constant' mode move the selector switch in the middle of the clock face to the 'I' position.

To select 'Off' mode move the selector switch in the middle of the clock face to the 'O' position.

### DIGITAL 7 DAY VERSION

The Vokera digital clock has the normal individual daily setting facility and a group timing feature.

Group timing allows for any single time slot of the 16 available to be repeated over one of the following three periods:-

MONDAY TO SUNDAY

MONDAY TO FRIDAY

SATURDAY AND SUNDAY

**N.B.** The display will not show until the clock has been connected to mains power for approximately two minutes.

**NOTE:** Always operate the reset button before attempting to programme the timer.

The reset button should also be used if the timer's memory becomes corrupted by mains interference which, dependent on location, may be present from time to time. Mains interference can cause the timer to display incorrect information and/or appear to have developed a fault.

### USE OF THE TIMER

#### Setting the time

1. Press and hold  $\uparrow$  button whilst carrying out steps 2, 3 and 4.
2. Set hour of day using **h+** button.
3. Set minute of day using **m+** button.
4. Set day of week by repeatedly pressing button marked **Day**
5. Releasing  $\uparrow$  button starts time switch running.

**ATTENTION!** If keys **h+** or **m+** are kept depressed for longer than 2 seconds, a rapid advance of figures will result.

Before entering any programme draw up a chart to arrange the settings required and enter in a chronological order; as on read back the programme displays in the order of entry.

#### TO PROGRAMME 'SWITCHING' ON TIMES

- (a) Press button marked 'CH1' once. The time of day - as set - disappears from the display.
- (b) Press button marked 'DAY' until the day or group of days requiring setting are displayed.

(c) Set the 'ON' time of programme required by using 'h+' and 'm+', buttons for hours and minutes. Please read the notes at the end of these instructions if you wish this switching time to be carried out on several days.

Again press button marked 'CH1', so that the command will be incorporated in the programme storage compartment.

—:— will appear.

**CH1 OFF**

#### TO PROGRAMME 'SWITCHING OFF' OFF TIMES

Now insert the 'OFF' time of the programme required using 'h+' and 'm+', buttons for hours and minutes.

(b) Press button marked 'Day' until the day or group of days requiring setting are displayed .

(c) In order to insert further switching times 'ON or OFF'- press 'CH1' button once or several times

respectively. The display shows a vacant storage space; for instance,

—:— will appear.

**CH1 ON**

Input of 'ON/OFF' times as described above may be carried out. Eight 'ON/OFF' programmes can be set. Press the button marked  $\odot$  on completion of programme settings.

#### NOTES: MULTIPLE WEEK-DAY SWITCHING GROUPS

It is possible to combine switching commands within the switching time programme if they are to be executed at the same time on different days of the week. For this purpose your Digital time clock offers the following possibilities.

Constant daily repetition:

Monday - Sunday (Mo-Su)

Week-days only:

Monday-Friday (Mo-Fr)

Week-ends only:

Saturday + Sunday (Sa-Su)

These weekday combinations can be called up with key 'Day' (for instance Mo,Tu,We,Th,Fr) during the programming operation of switching times. Thus switching time carried out for instance Monday - Friday at 13.00 hrs requires only one storage space. Alterations are carried out by 'overwriting' of the individual command. To achieve this, follow the procedure for 'SWITCHING ON AND OFF' (Programming of switching times).

**CANCELLATION OF SWITCHING COMMANDS**

If keys 'h+' and 'm+' are used to overwrite a switching command in such a way that the hour and/or minute area in the display shows the symbol —:—, the input is no longer effective, but it remains in the storage compartment as an inactive part.

**SWITCHING CONDITION INDICATION**

The actual switching condition is shown in the displays as 'ON' or 'OFF' together with the time of day.

**PRE-SELECTION SWITCH (Hand Symbol)**

This key has 4 functions

Press once:

Advancement of next switching command:  
ON and OFF respectively

Press again:

Indication in display: **FIX ON** = Constant Heating.

Press again

Indication in display: **FIX OFF** = No heating.

Press again

Indication in display: **AUTO** = Timed heating

**SUMMER TIME / WINTER TIME CHANGEOVER**

From winter time to summer time: Depress key 1 h briefly once (Display shows symbol +1 h)

From summer time to winter time: Depress key 1 h briefly once (Symbol +1 h disappears from display)

**RUNNING RESERVE**

In the case of mains electricity failure, the internal battery ensures that the actual time of day continues to operate and that the automatic switching programme remains intact. The instrument can be programmed completely even without mains supply, provided the back-up battery is fully charged (charging time 70 hours).

**VOKERA 2 CHANNEL PROGRAMMER**

The Vokera 2 channel 7 day programmer will automatically switch your central heating system ON and OFF once, twice or three times a day, whichever you wish and at whatever times you choose each day of the week.

It incorporates a rechargeable battery back-up system to protect the programme during power cuts of up to 24 hours, even though display will go blank.

The clock in the programmer has to be set to the actual day of the week and time of day.

It must then be told at what times you want it to switch your Central Heating (CH) and Hot Water (HW) system ON and OFF for each day of the week. This set of switching times is known as a programme.

The programmer has an in-built programme of standard switching times. They may well be right for you, but if they are not exactly what you want you can change them.

The standard programme is shown in the table on the following page, and, for simplicity, the switching operations are described as ON1, OFF1, ON2, OFF2, ON3, OFF3 from now on.

**SETTING THE CLOCK**

Use the chart on the back cover to plan your programme before proceeding.

Switch on the mains supply to the boiler, then switch the mode selector switch (1) ON. Press and release the button marked SET.

The display will show



Press and release the button marked YES to answer the question and the day part of the display will flash. Use + and - buttons to change to the correct day then press SET again.

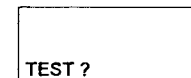
This will cause the hour part of the display to flash. Use the + and - buttons to change to the correct hour (check AM or PM) then press SET again. This will cause the minutes part of the display to flash. Again use the + and - buttons to change the minutes as required, then press SET again.

The display will now show



(see later instructions for changing your programme). Press the SET again

The display will now show



(again see later instructions)

Press the **SET** button again.  
The display will show



(again see later instructions about this holiday setting feature). Press **SET** once again and the display will show actual time of day and day of the week you have set.

**PROGRAMME TEST**

As described earlier, there is a place in the programming sequence where you will be given the opportunity to press **YES** when the display shows **TEST ?** This feature is available so you can quickly run through the **ON** and **OFF** times set to make sure they are what you want.

Answer **YES** and the display will show a time just past midnight on the morning of the day of the week you are actually in. Now press and hold down the **YES** button again. The time display will start to "run" and will pause for 2-3 seconds when it reaches the **ON1** time for that day, the **ON** indicator light will be energised as will the circuit being controlled. If you release the **YES** button the display will stop running and give you more than 2-3 seconds to think about a switching time.

Continue pressing **YES** and the display will now "run" to the **OFF1** time when it will pause again and the time switch will switch off. It will then "run" to the **ON** and **OFF** times in turn, pausing at each before moving to the next day and identifying the **ON** and **OFF** times in the same way.

The programmer will continue identifying the **ON** and **OFF** times in this way for each day in sequence until you press the **SET** button when it changes to the holiday setting mode. Pressing **SET** button again returns the module to normal operating mode.

**HOLIDAY SETTING**

Note: This useful feature allows you to set the number of days you want your system to be permanently off before automatically switching on at the programmed time.

The programmer counts each pass through mid-night as one day, so if on Saturday morning you don't want the system on again until Tuesday morning you set the counter to 3. If when the display shows **SET H'DAY ?** you press the **YES** button the display will show **OO**. By using the **+** and **-** buttons you can now set the number of days you want the system to be off, a maximum of 99 days is possible.

Now press **SET** again and the display will be blank apart from **H'DAY**. Having counted down to zero, the programmer will switch the system on at the times set for that day. If you wish to cancel the **H'DAY** setting, press any button and normal operation will be resumed. Your module is now in the operating mode and ready to work using the built-in standard programme times.

**PROGRAMME OPTIONS**

Hot water and central heating can be operated independantly.

The programmer gives you 4 options for both CH and HW:

- OFF - Off all the time
- TIMED - On/Off at all periods set in programme
- ONCE - On for one period each day (ON1 >> OFF3)
- ON - On all the time

Obtain the options you require by using the **SELECT** buttons to move the arrows in the display to the appropriate positions. Your module is now working using the standard programme times. If these suit your needs there is nothing else to do.

You can temporarily override the normal switching times by pushing a button marked **ADVANCE**. This switches **ON** to **OFF** to **ON** as you require, but the normal programme switching times will not be permanently affected. If you want to make changes to the programme, it is suggested you write them down on the chart on the back cover before making the changes.

SWITCHING	MONDAY - FRIDAY		SATURDAY - SUNDAY	
	H/W	C/H	H/W	C/H
ON1-Start of first timed period of day (ON)	6.30am	6.30am	6.30am	6.30am
OFF1-End of first timed period (OFF)	8.30am	8.30am	9.00am	9.00am
ON2-Start of second timed period (ON)	12 noon	12 noon	12 noon	12 noon
OFF2-End of second period (OFF)	12 noon	12 noon	12 noon	12 noon
ON3-Start of third period (ON)	4.30pm	4.30pm	4.00pm	4.00pm
OFF3-Final switch 'OFF'	10.30pm	10.30pm	11.00pm	11.00pm

### CHANGING YOUR PROGRAMME

With the module in the operating mode and the display showing the actual time of day, press the **SET** button. The display will again show **SET CLOCK ?** but this has already been done so push the **SET** button again.

The display will again show **SET PROG ?** and as it is the programme settings which are to be changed press the **YES** button.

The display will show



**NOTE:** The grouping of days in this way is to enable timings which apply to each and all of the weekdays to be set first, followed by the opportunity to change one or more timings for any single day.

If you wish to set timings which will be the same for each weekday press the **YES** button.

The display will show



press **YES** and make the changes or press **SET** if no changes are required.

The display will now show



press **YES** to make changes or **SET** if no changes are required.

The display will now show



press **YES** if you wish to make changes to Monday timings or press **SET** to change the display to **SET TUE PROG ?** Again press **YES** to make changes to Tuesday timings or continue to operate the **SET** button to access each weekday in turn.

If you press **YES** to make changes to the settings for a particular day, the display will firstly show **SET CH**

Press **YES** will allow changes to be made to the central heating settings, but pressing **SET** will cause the display to show **SET HW** Press **YES** will allow the changes to be made to the hot water settings, a further press of **SET** will move the display on the next day.

After any Friday changes have been made press **SET**  
The display will show



This gives you the chance to set timings which will apply to both weekend days by answering **YES**. Further operation of the **SET** button accesses **SAT** and **SUN** for individual timing changes.

Pressing **SET** after finishing any weekend programme changes, or pressing **SET** in answer to **SET PROG ?** returns the module to **TEST ?** Pressing **SET** again display **SET HOL ?** Pressing **SET** again returns the module to the normal operating mode.

If you answer **YES** to any of the detailed programming questions the following steps will apply.

The display will show the time set for the first switch on (**ON1**) to occur for the day(s) concerned. This can be altered in steps of 10 minutes by use of the **+** and **-** buttons. When the display is showing the time you want, press **SET** and the **OFF1** time will be seen.

Again changes may be made with the **+** and **-** buttons before pressing **SET** to show the time for **ON2** to occur. After making any adjustments press **SET** again to get the **OFF2** time displayed. Repeat this operation for the **ON3** and **OFF3** settings. This may be set up to 23 hours 50 minutes after the first switch on time.

Further operations of the **SET** button will take you through any remaining days of the week to be programmed before arriving at the operating mode and ready to work at the times you have set.

### HELPFUL HINTS

1. The **+** and **-** buttons are used to change times. Press and release for small changes; press and hold down and the time will 'run'.
2. You cannot set the first switch on time (**ON1**) before mid-night but you can set the **OFF3** after midnight so long as you don't try to exceed 23 hour 50 mins after **ON1**.
3. The switching times have to be in sequence (**ON1, OFF1, ON2, OFF2, ON3** and **OFF3**) if you try to set **OFF1** earlier than **ON1** the display will stop at the **ON1** time with the **OFF** symbol flashing. The same thing will happen with other switching times e.g. between **OFF1** and **ON2**, this time the **ON** symbol will flash.
4. If you attempt to set the **ON1** after the **OFF1** time, the **ON** symbol will flash and the **OFF1** setting will follow the **ON1** time being set to prevent incorrect programming. The same feature applies with the other **ON** and **OFF** times and also between the **OFF** and **ON** times.
5. To use only two switching per day set the **ON2** & **OFF2** times both to 12.00
6. If you get confused and wish to start the whole programming procedure again, press the **SET** and **+** buttons together for a moment. The module will revert to a mid-night time display and the built-in standard programme. You will now have to set the clock again and then enter the programme you want.
7. When you are making adjustments to timings, if no button is pressed for 1 to 2 minutes, the module will automatically revert to the normal operating mode.
8. To shut the **CH** down for the Summer simply select the **OFF** option by means of the **CH SELECT** button.

SWITCHING	MONDAY-FRIDAY		SATURDAY-SUNDAY	
	H/W	C/H	H/W	C/H
ON-Start of first timed ON period of day				
OFF1-End of first timed period				
ON2-Start of second timed period				
OFF2-End of second timed period				
ON3-Start of third timed period				
OFF3-End of third timed period				

USE THIS CHART TO PLAN YOUR PROPOSED PROGRAMME FOR THE 2 CHANNEL PROGRAMMER

