GREEN BROOK
ELECTRICAL

**Installation/Operating
Instructions for Din Rail Mounting
Digital Compact Timer
Model - T80**

Please read the instructions fully
before attempting installation.

IMPORTANT

***This unit should be installed to the
current IET Wiring Regulations,
by a qualified electrician.***

- Before connecting the timer to the
mains, check that the mains voltage
and frequency correspond to the
rating plate (on side of timer).
- Do not overload. Refer to the Ampere
rating (amps) on the rating plate.
- Do not expose the timer to
extremely high or low temperatures.
Do not place the timer in direct
sunlight.
- Do not allow the timer to come
into contact with water.
- If the time switch is mounted near
equipment where heat produced
raises the local ambient temperature
above 55°C, then a 1/2 module space
should be left between the time switch
and the equipment.
- If used to operate a contactor, then a
1 module space should be left
between timer and contactor.

INSTALLATION

- This timer is designed to be din rail
mounted.
- Ensure that the 230V AC supply is
connected to terminals 1 and 2.
- Terminals 3 and 4 are volt free
contacts. Live in goes to terminal 3
and Live out goes to Load.
There is no neutral switching with the
T80, ensure that maximum loading is
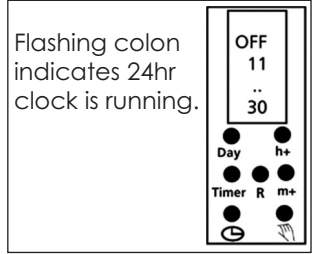complied with.

HOW TO OPERATE

When the timer is new or when it has
not been used for some time it may
need to be "charged".
To do this, connect to power.
The built-in rechargeable battery will
begin to charge.When symbols appear
in the display (after approx. 2 minutes),
press the "Reset" button (use a pencil or
pen).
Caution: this will cancel all memory
including timer settings. The timer will be
'clean' for new commands. If a power
failure should occur (or should the timer
be disconnected from the power
supply for a short time), the built-in
rechargeable battery will then provide
power to the clock and guarantee that
the time and switching programmes are
retained and not disturbed or lost.

HOW TO SET
24 HOUR CLOCK

Present time and day

1. Keep ⏻ button depressed during
the entire "present time and day"
setting procedure.

2. Set the present time using buttons
"h+" and "m+".
If you keep buttons **"h+"** and **"m+"**
depressed for longer than a second
the figures in the display will scroll
continuously. Set the present day of
the week using button **"Day"**.
3. Release Button ⏻ . The clock is now
running. The flashing colon indicates
this. Use a reliable time signal
(e.g. telephone or radio) to set the
clock accurately to the minute.

Flashing colon indicates 24hr clock is running.

```
OFF
11
..
30
```
Day   h+
Timer R m+

SWITCHING TIME(S)

You can set as many as six switching-on
commands and an equal number of
corresponding switching-off commands
in the following manner:

1. Depress **"Timer"** button
once. The actual time will
disappear from the
display. This **Timer on**
indication will be
displayed instead,
denoting a vacant "on"
time on No. 1 programme.

```
TIMER
ON   MO
     TU
     WE
--   TH
     FR
..   SA
--   SU
```

NOTE:
*Setting hours and minutes: When setting
switch-on time and switch-off time be sure to
set minutes as well as hours.*
*e.g. if 08.00 is required set all 4 digits: "08."
and ".00"*

2. Set the required switching-on time
using button **"h+"** and **"m+".**
3. Set the day(s). See **"Day"** button
selection (over) on which the
switching-on command must be
executed.
4. Depress button **"Timer"** once.
Timer-off will be displayed.
5. Set the required switching-off time
using button **"h+"** and **"m+"**.
6. Set the day(s) on which the
switching - off command must be
executed.
(Default setting is every day).
7. Pressing the **"Timer"** button will move
the timer to programme 2 ON.

When this **2 Timer on** indication appears
you can begin setting another switch-
ing-on command, if you wish. Six such
programmes may be stored in this
manner, following 2) to 6) above.

After setting the required "on" and "off"
times, press ⏻ to revert to present time.

EXAMPLE


```
TIMER  MO   TIMER  MO
ON     TU   OFF    TU
11     WE   21     WE
       TH          TH
..     FR   ..     FR
30     SA   55     SA
       SU          SU
```

The switching commands will
be carried out every day if no
day or days have been set.

NOTE: Be sure that the desired day or days are chosen on both the 'on' and the 'off' displays.

EXAMPLE

TIMER ON	MO	TIMER OFF	MO
	TU		TU
	WE		WE
10	TH	18	TH
..	FR	..	FR
23		45	

If a day or 'block' programme of days is chosen, the timer will respond to each of those days and omit the blanks

"DAY" BUTTON SELECTIONS

Every day of the week
If you do not enter the day when setting a switching command, the switching will be carried out at the set time on every day of the week.

Only one day of the week
If you enter a particular day while setting a switching command (using button "Day"), the command will be carried out at the set time only on that specific day of the week.

Abbreviations
MO = Monday, TU = Tuesday,
WE = Wednesday, TH = Thursday,
FR = Friday, SA = Saturday,
SU = Sunday.

On a weekly combination (or 'block' programming) of days
When pressing button "Day" several times, you will find by means of the display that three combinations of days are also possible:
MO TU WE TH FR = Monday to Friday
SA SU = Saturday and Sunday
MO TU WE TH FR SA = Monday to Saturday
If you enter these combinations of days instead of one individual day, the on/off command will be carried out at the set time on each of the corresponding days of the week.
This programme will repeat itself week after week until the programme is changed or the timer is disconnected.

HOW TO CHECK, CHANGE OR DELETE SWITCHING COMMANDS

Checking
By pressing button "Timer" a number of times you can make the switching-on and switching-off commands visible in the display: first the set commands are presented and then the free spaces.

Changing
You can change a switching command by making it appear on the display and pressing "day", "hour" and "minute" buttons accordingly.

Deleting
Delete a timer command period (an 'on' and 'off' time) by pressing the "timer" button until the required program number on time is displayed in the window and pressing h+ until -- is displayed immediately after 23. Do the same with m+ until -- appears after 59. Repeat this sequence for the 'off' mode. The deleted command then becomes available for reprogramming. Press button "Timer" after changing or deleting a command to save the new command.

Switching back to present time
After setting the switching commands you return to normal time reading by pressing ⊕ button.

Is power being supplied to connecting load?
The word "ON" or "OFF" in the display, above the time reading, informs you about the actual switching condition.

OVERRIDE SWITCH

When in the "off" mode pressing the button marked will switch "on" the power to the load connected to the timer. If the button is pressed again the power will switch off. If the button is not pressed again, power will remain on until the completion of the next on/off command when power will switch off. If not pressed again the power will remain off until the following 'on' command has been reached.

IMPORTANT:

1. If the current time is within your programmed 'ON' period then you will need to press the manual override 'Hand Symbol' button to switch output to 'ON'
2. To maintain battery life do not leave uncharged for more than 6 months.

TECHNICAL INFORMATION

No of Channels:	1
Contact Rating:	16A, 230V AC 2A Inductive volt free switching
Shortest Switching Time:	1 minute
Capacity:	6 programme blocks
Voltage Supply:	230V
Mains Frequency:	50Hz
Class Type:	II
Possible Settings:	Clock time, time on/ time off, days of week, block programme
Display:	LCD figures 4mm high
Deviation:	2.5 seconds per day
Reserve:	100 hours
Manual Override Switch:	Yes
Mounting :	DIN rail mounted
Connections :	2.5mm² max
Size:	Width 18mm (1 module), projection from DIN rail 55mm, height 90mm
Conforms To:	BS EN IEC 60730-2-7 & BS EN 60730-1

NOTE:

Product & Packaging Disposal
When disposing of this item and its packaging please follow local regulations and use an appropriate waste disposal centre.
See GreenBrook website for further details.

PLEASE KEEP THESE INSTRUCTIONS SAFE FOR FUTURE REFERENCE

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