TIMEGUARD®

24Hour/7Day
Electronic Timeswitch

Model: TG77

Increments
programming steps
and when held
pressed for
approximately
4 seconds initiates
clock set mode

Override to next
programme change,
also gives permanent
ON/OFF and also
suspends and
reinstates programmes

Tamper proof reset
button (use pen or
similar implement)

Initiates countdown
time period

Initiates random
delay to both start
time and stop time of
every programme

R

RND

CTD

MO
AUTO 00:00 00
OFF
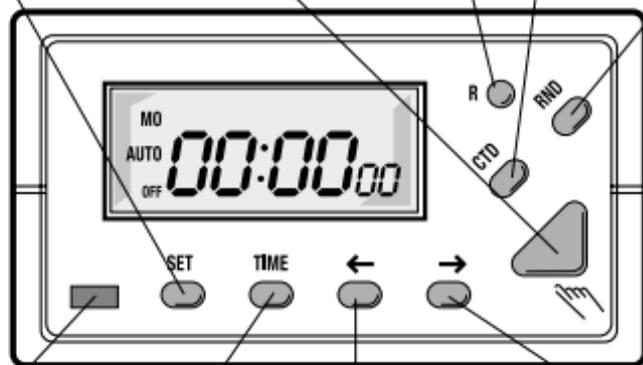
SET   TIME   ←   →

Output
ON light

Returns TG77 to
operating mode
with clock time
displayed

Decreases hours,
minutes, days/day
groups during
programming
and setting clock time

Increases hours,
minutes, days/day
groups during
programming
and setting clock time

1

1. General

The TG77 is an easy to programme electronic time controller
with a large 24 hour display, offering both 24 hour and 7 day
programming options. 20 ON/OFF programmes are available which
can be made to operate over all seven days (24 hour operation),
one of seven individual days and various combinations of days.
Battery back up retains programmes and clock time in the event
of mains failure and allows out of socket programming.

The unit has the advanced feature of random delay to both start
and finish of all programmes and also has a manually initiated
Countdown time period of up to twenty four hours during which
output is ON.

2. Features
- Plug-in control.
- 24 hour and 7 day programming options.
- 20 ON/OFF programmes operating over a wide choice of day groups and individual days.
- Manual override until the next programme change.
- Permanent ON or OFF facility.
- Large display.
- Battery back up retains current time of day and programme memory during loss of mains supply. Also allows programming out of socket.
- Manual start Countdown facility.
- ON/OFF programmes can be suspended from operation.
- Optional random delay to both start and finish of all programmes.
- Output ON indicator.
- Shortest switching time of 1 minute.
- Programme review.
- Repeats programmes week after week continuously.

3. Battery
The unit has a factory fitted rechargeable battery to allow out of socket programming and to give clock operation and memory back-up during loss of mains supply. If the display is dim or not visible plug the TG77 into a live socket for 4 hours before resetting and programming. When not in use it is best to keep the TG77 plugged into a live socket to ensure the best possible battery life.

4. Reset (RST)
The unit must be reset before programming for the first time or if the unit has been left out of a live socket for more than 150 hours.

Press RST using a pointed object (e.g. a pencil). Display will show its full set of characters and clear to show:

```
MO
AUTO 00:00
OFF      00
```
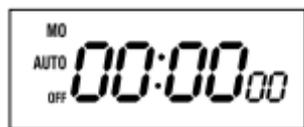
The colon between hours and minutes will flash and the seconds begin to advance.

5. Setting or Adjusting Clock

Points to remember while setting time or programming:-
(Seconds display is not shown on diagrams for sake of clarity.)

The → and ← buttons alter the days/day combinations, the hours, the minutes and programme numbers/ON or OFF designation. The ← button also initiates the programme sequence for Countdown CTD mode. The → button also initiates the ON/OFF programme sequence and achieves easy SUMMER/WINTER time change when pressed at the same time as the TIME button.

The → button increases the above value which is flashing and the ← button decreases it. If the particular value required is towards the end of a sequence (eg 52 for minutes) pressing the ← button can get to it quicker (from the 00 position).

The → or ← button can be held down to provide fast advance or reverse.

The programming process is achieved by alternate use of the SET and → or ← buttons.

The setting sequence is as follows:-
(example used is 10:52 WE being set from a reset condition (see section 4). If you wish to use the easy Summer/Winter time changeover described in section 13 please set the time to GMT (Winter time).

Press the SET button for approximately 4 seconds and the day symbol will flash.

MO
AUTO
OFF
0:00

Press → until the display shows WE.
Press SET, display shows:

WE
AUTO
OFF
0:00

Press → until the hour digits reach 10.
Press SET, display shows:

WE
AUTO
OFF
10:00

Press ← until the minute digits reach 52 (note the use of the ← button being much quicker than the → button in reaching 52).

Press SET, display shows:

The TG77 is now in operation mode with the time display and colon flashing.

6. Programming Timed ON/OFF Mode

20 ON/OFF programmes are available to the user. Any number up to 20 can be programmed, unused programmes must be left blank (– – : – –) and not programmed with zeros. Each of the programmes can be assigned to work over the following days/day groups (shown in order of presentation on the TG77 programming screen):-

> **MO TU WE TH FR SA SU (24 hour operation)**
> **MO THROUGH TO SU (individual days)**
> **MO TU WE TH FR**
> **SA SU**
> **MO TU WE TH FR SA**
> **MO WE FR**
> **TU TH SA**
> **MO TU WE**
> **TH FR SA**

The programming sequence is as follows:-
(example used is 12:10 ON 16:05 OFF MO TU WE)

Press →, display shows:

 Denotes flashing symbol(s).

4
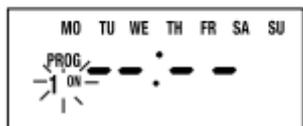
Press SET, display shows:

Press →, day(s) options change accordingly to above sequence (to retrace the options press ←) when required option is reached (i.e. MO TU WE) then

Press SET, display shows:

Press →, hour digit(s) advance (to retrace hours press ←) until 12 is reached then

Press SET, display shows:

Press →, minute digits advance (to retrace minutes press ←) until 10 is reached then
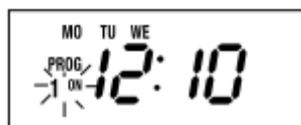
Press SET, display shows:

Press →, display shows:
The OFF time and day(s) for the first programme can now be set.
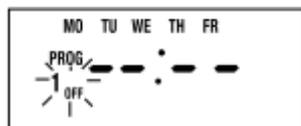
Press SET, display shows:
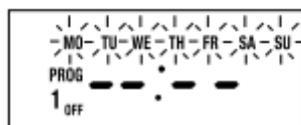
Press →, until day(s) option reaches MO TU WE on the display

Press SET, display shows:

Press ← until hour digits reach 16
then Press SET, display shows:

> MO TU WE
> PROG
> 1 OFF **16:00**

Press → until minute digits reach 05
then Press SET, display shows:

> MO TU WE
> PROG
> OFF **16:05**

Press → and display moves to the next
ON time of the programme (2) in the
sequence of 20 showing:

> MO TU WE TH FR SA SU
> PROG
> 2 ON **‒ ‒ : ‒ ‒**
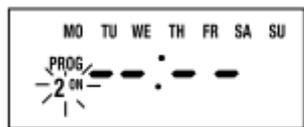
The TG77 now has the first programme locked into memory
and is ready to receive additional programmes if required.
When programming is complete press the TIME button to return
to the operating mode. When programming additional programmes
the choice of day or day group is always totally open.

Note: Day/Days have to be set independently for each ON and OFF
entry. This makes it easy to set programmes which traverse midnight
or which carry on for more than one day.

7. Suspending A Programme

From operating mode press → repeatedly until the ON or OFF
programme to be suspended is reached (button ← can be used to
retrace steps if necessary). Press the ✎ button and display will
reset to ‒ ‒ : ‒ ‒ then press the TIME button to return to
operating mode. To reinstate programme again use → to reach
suspended programme and press ✎ to retrieve suspended
programme then press the TIME button to return to the operating
mode.

ON and OFF halves of the same programme have to be
suspended seperately.

8. Reviewing and Changing ON/OFF Programmes

Press → repeatedly until the ON or OFF programme requiring amendment is reached (button ← can be used to retrace steps if necessary). Press the SET button repeatedly until the day(s)/hours/minutes are flashing then use the → ← buttons to make the amendment. When this is complete press the TIME button to return to operating mode.

9. Adjusting Clock Time

Press SET for approximately 4 seconds and the day symbol will flash. This can be changed using → ← buttons as required. Further brief pressings of the SET button show the hour and minute settings flashing and these may be changed in the above way if required. Then press the SET button and the display will show the operational mode.

10. Countdown Mode

This enables the TG77 to complete a timed ON period from a manually initiated start. The period can be from 1 second to 24 hours. **The TG77 can be programmed as follows:-** (example used 1 hour 10 minutes 30 seconds)

Press ←, display shows:
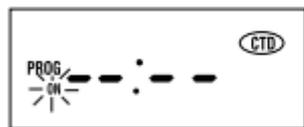
Press SET, display shows:
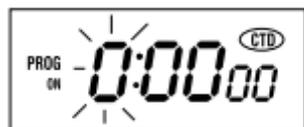
Press → to set hours to 1
Press SET, display shows:
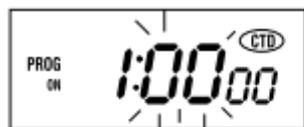
Press → to set minutes to 10
Press SET, display shows:

PROG ON   1: 10 00 CTD
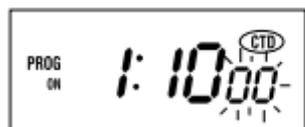
Press → to set seconds to 30
Press SET, display shows:

PROG ON   1: 10 30 CTD
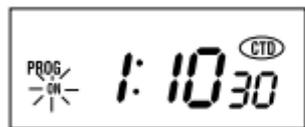
Now press CTD to start the countdown procedure. Output light will turn ON and the appliance plugged into the TG77 will be energised while the display counts down to zero when the appliance will be turned OFF. Before pressing CTD ensure the TG77 is plugged into a live socket and the appliance is switched ON. If the CTD button is not pressed within 10 seconds of the previous use of the SET button the display will revert to normal operation mode. To retrieve the setting press ← and then SET after which countdown can be started by pressing the CTD button.

11. Operating the TG77 in Timed ON/OFF Mode

Ensure that the unit is in operating mode. Press the 〰 button until the left side of the display shows AUTO and either ON or OFF as appropriate for the programme(s) at that time of day and day of week. Then plug the TG77 into a live socket, plug the appliance to be controlled into the TG77 and ensure the appliance is switched ON. The TG77 will enact all programmes stored on a continuous basis.

To override the unit at any time press the 〰 button twice. The display will change from AUTO OFF to AUTO ON or from AUTO ON to AUTO OFF and the override will last until the next programme change.

To go to a continuous ON or continuous OFF condition press the ✎ button repeatedly until either ON or OFF as appropriate is on the display without the AUTO symbol.

12. Random Delay of Programme Start and Finish

By pressing the RND button the (RND) symbol appears in the top right of the display and a random delay to both start and finish of ON periods will result. The random delay varies anywhere between 2 and 32 minutes to give the impression that a standard timeswitch is not in use.

13. Summer/Winter Time Change-over

By pressing the Time and ← buttons at the same time the time will advance 1 hour and the (+1h) symbol will appear over the second display. By pressing the buttons at the same time once more the symbol disappears and the time moves back 1 hour.

To use this feature the TG77 needs to have the clock time set to GMT or Winter Time.

14. Change from 24 hour to AM/PM Format

Press the 'Time' button for around 3 seconds and both the 'Time' display and all stored programmes will be changed from 24 hour to AM/PM format.

Press the 'Time' button again for around 3 seconds and both the 'Time' display and all stored programmes will change back to 24 hour format.

After pressing the RST button to reset the unit, it will always come up in 24 hour format.

15. Specifications

Operating Voltage:	230V 50Hz.
Switch Rating:	13A resistive, 2A inductive, 400W filament lamps. 100W fluorescent or low energy lighting.
Operating Temperature:	0°C to 40°
Battery:	Factory fitted rechargeable. Provides up to 150 hours of clock operation and programme memory back up during mains failure.
EC Directives:	Conforms to latest directives.

Not suitable for discharge (e.g. SON and Metal Halide) or LED lighting.

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture, within 1 year of the date of purchase, please return it to your supplier with proof of purchase and it will be replaced free of charge. In the second and third years or any difficulty in the first please contact our helpline on **020 8450 0515**.

Note: A proof of purchase is required in all cases.

For all eligible replacements (where agreed by Timeguard) the customer is responsible for all shipping/postage charges outside of the UK. All shipping costs are to be paid in advance before a replacement is sent.

For assistance with the product please contact:

HELPLINE
020 8450 0515

or email helpline@timeguard.com
www.timeguard.com

TIMEGUARD®

A **theben** Group Company

For a product brochure please contact:

Timeguard Limited.
Victory Park, 400 Edgware Road,
London NW2 6ND
Sales Office: 020 8452 1112
or email csc@timeguard.com

67-058-317 (Issue 2)

Zerofour – June 2015