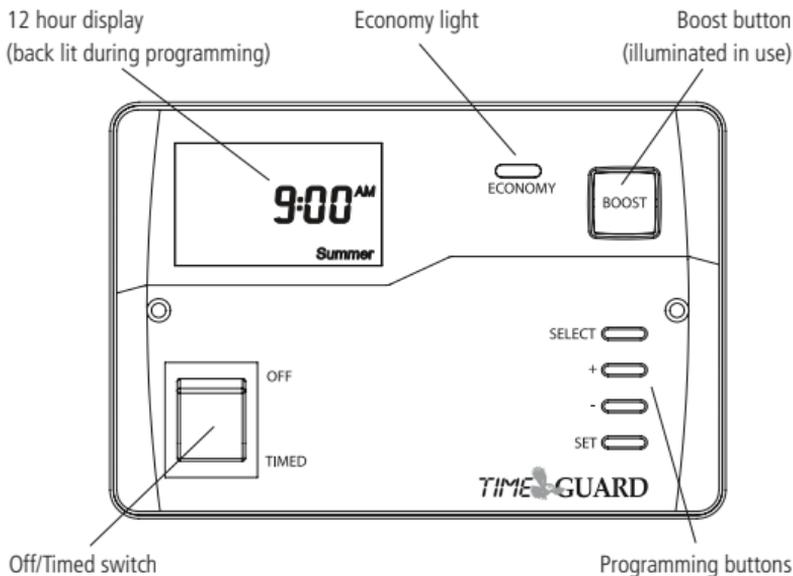


1. General Information:



1

Contents:

- TRTD7 Economy programmer.
- Mounting kit.
- Instructions.

The TRTD7 is a digital economy seven programmer, giving a range of pre programmed off peak time periods, which are user adjustable to suit all programming needs.

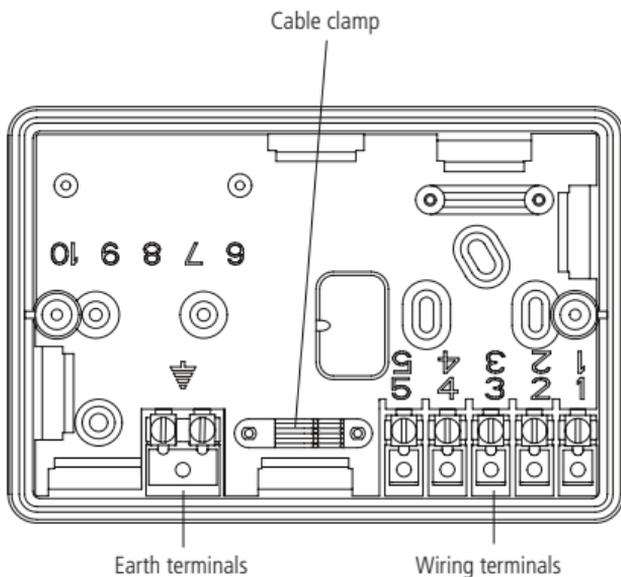
It has a manual boost of 30, 60 and 120 minutes, and also the option of a pre programmed boost.

The TRTD7 has automatic summer winter time change as an option.

It can be used with single, twin and dual immersion heaters.

It is supplied with an industry standard back box, and is interchangeable with most commonly fitted economy seven programmers without the need for re-wiring.

2. Installation:



2

The TRTD7 is supplied with a standard back box, which can be used if there is no existing back box already installed. The new back box may be screwed to the wall using the fittings provided.

The leads are numbered 1 to 5, and if disconnected, must be replaced appropriately.

There is an optional earth terminal for incoming and outgoing earth continuity.

Cables should enter through a convenient knock out, and should be secured using the cable clamp.

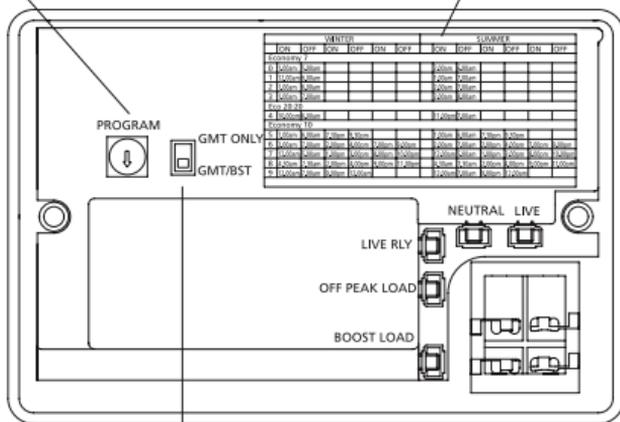
The terminals are labelled:

- 1 Live.
- 2 Neutral.
- 3 Heater neutral.
- 4 Boost load.
- 5 Off peak load.

3. Commissioning:

Program selector

Tariff table



GMT only / GMT/BST switch

3

Contact your energy supplier to check which energy plan you are on, and whether the off peak times change during winter and summer.

On the tariff table, on the reverse of the product (or at the end of these instructions), find which programme correlates with your energy plan. Turn the programme selector to the correct number for the programme. (if you want a programme that isn't shown on the table, select the closest to your desired programme, and this can be adjusted later).

On the back of the unit, select GMT only, or GMT BST depending on your energy plan.

Screw the front of the unit to the back box, using the screws provided.

With the rocker switch in the OFF position, the unit can be programmed, and the internal battery will charge.

With the rocker in the TIMED position, the output will be according to the programme, or the appropriate boost period.

During off peak periods, the economy light will illuminate.

4. Time Entry:

Press the SET button.

Clock will show on the top of the screen, along with the hour flashing.

Use the + and - buttons to set the required hour, and then press SELECT to change to the minutes. Use the + and - buttons to set the minutes, and then press SELECT again to change the year.

Use the + and - buttons to set the year, and then press SELECT to set the month. After setting the month, press SELECT to change the day.

Press SELECT to return to operating mode, where the time will be displayed, along side winter, or summer, according to time of year, and the word Auto (Auto will only be displayed if the rocker switch is in the timed position).

Summer and winter will show regardless of the position of the GMT/BST switch.

At any time in programming, holding down either + or - will scroll more rapidly through the digits.

5. Reviewing and Editing Programmes:

When viewing the off peak times, the times indicated on the screen will be those chosen during commissioning. These can be changed if required.

Press SET twice.

Off peak will be displayed on the screen, along with the on time for programme 1. Use the + or - buttons to change the hour (flashing) if required. Press SELECT to change the minutes.

Continue pressing SELECT and changing programmed times as required.

Once all available programmes have been reviewed / changed, press SELECT to return to operating mode.

In operating mode, Auto or Manual will be displayed. Manual is an indication that the programmes entered are different to the default programmes.

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. For years 2 and 3 or any difficulty in the first year telephone the helpline on 020 8450 0515.



For assistance with the product please contact:

HELPLINE

020 8450 0515

or email helpline@timeguard.com



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

A **theben** Group Company

Designed in the U.K. 67-058-467

6. Timed Boost:

If there is a regular requirement for hot water outside the off peak periods, a programmed boost can be set. This will not use cheap rate electricity.

Press the SET button three times. Boost will be displayed, along with the on time, default 12.00 PM.

The hour will be flashing. Change the hour using the + and - buttons, and then press SELECT to change the minutes. Press SELECT to change the off time.

Finally press SELECT to return to operating mode.

Note: The boost time set will not be activated automatically just by programming a time. To activate the programmed boost period, press SELECT in operating mode, and Timed boost will be displayed.

During a timed boost period, the surround of the boost button will illuminate.

7. Manual Boost:

The manual boost is operated by pressing the boost button. When the boost button is pressed, the button surround will illuminate.

Boost can be for 30, 60 or 120 minutes. Successive presses of the boost button will scroll through the time periods. These are displayed on the top right of the screen.

The boost time selected will display the remaining time of the boost period, and will count down to zero.

Boost can be cancelled by repeatedly pressing the boost button until there is no boost time displayed.

Should an economy period start within the duration of the boost, this will over ride the boost period, using cheaper off peak electricity.

During an off peak period, with the economy light illuminated, it is not possible to use the boost function.

Resetting:

The TRTD7 can be reset to factory defaults by pressing and holding + and - simultaneously until the screen goes blank, and then shows all segments. The time and date may need resetting.

Sleep Mode:

If power is removed for any reason, then the internal battery will preserve the programming, and also the time / date. The screen will go blank ten seconds after the power is turned off, to preserve the battery life. It can be woken up by pressing the + or - button, or by reapplying mains power to the unit.

8. Specifications:

| | |
|---------------------------|--|
| Manual Permissible loads: | 13A, 230V, 50Hz, suitable for immersion heaters up to 3kW. |
| Ingress protection: | IP30 |
| Insulation: | Class 1 |
| Battery reserve: | Two years. |
| Standards: | |
| Compliant with: | BS EN 60730, 72-23-EEC, and 89-336-EEC |
| Size: | 175 x 120 x 70mm. |
| Switch type: | Double pole rocker switch |

9. Tariff Table:

| | WINTER | | | | | | SUMMER | | | | | |
|-------------------|---------|--------|--------|---------|--------|---------|---------|--------|--------|---------|--------|---------|
| | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF |
| Economy 7 | | | | | | | | | | | | |
| 0 | 1.00am | 5.00am | | | | | 2.00am | 6.00am | | | | |
| 1 | 12.00am | 6.00am | | | | | 1.00am | 7.00am | | | | |
| 2 | 1.00am | 6.00am | | | | | 2.00am | 7.00am | | | | |
| 3 | 1.00am | 7.00am | | | | | 2.00am | 8.00am | | | | |
| ECO 20:20 | | | | | | | | | | | | |
| 4 | 10.00pm | 6.00am | | | | | 11.00pm | 7.00am | | | | |
| ECONOMY 10 | | | | | | | | | | | | |
| 5 | 1.00am | 6.00am | 7.30pm | 9.30pm | | | 1.00am | 6.00am | 7.30pm | 9.30pm | | |
| 6 | 2.00am | 7.00am | 2.00pm | 4.00pm | 7.00pm | 9.00pm | 2.00am | 7.00am | 2.00pm | 4.00pm | 7.00pm | 9.00pm |
| 7 | 12.00am | 5.00am | 1.00pm | 3.00pm | 8.00pm | 10.00pm | 12.00am | 5.00am | 1.00pm | 3.00pm | 8.00pm | 10.00pm |
| 8 | 4.30am | 7.30am | 2.00pm | 4.00pm | 9.00pm | 11.00pm | 4.30am | 7.30am | 2.00pm | 4.00pm | 9.00pm | 11.00pm |
| 9 | 12.00am | 7.00am | 9.00pm | 12.00am | | | 12.00am | 7.00am | 9.00pm | 12.00am | | |

Digital Economy Seven Programmer

Model: TRTD7 - White



Installation & Operating Instructions