

# TIMEGUARD®

## 24 Hour Immersion Heater Time Controller

Model: TS900N



Installation & Operating Instructions

# 1. General Information

These instructions should be read carefully and retained for further reference and maintenance.

## 2. Safety

- Before installation or maintenance, ensure the mains supply to the time switch is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- It is recommended that a qualified electrician is consulted or used for the installation of this time switch and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this time switch is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.

## 3. Technical Specifications

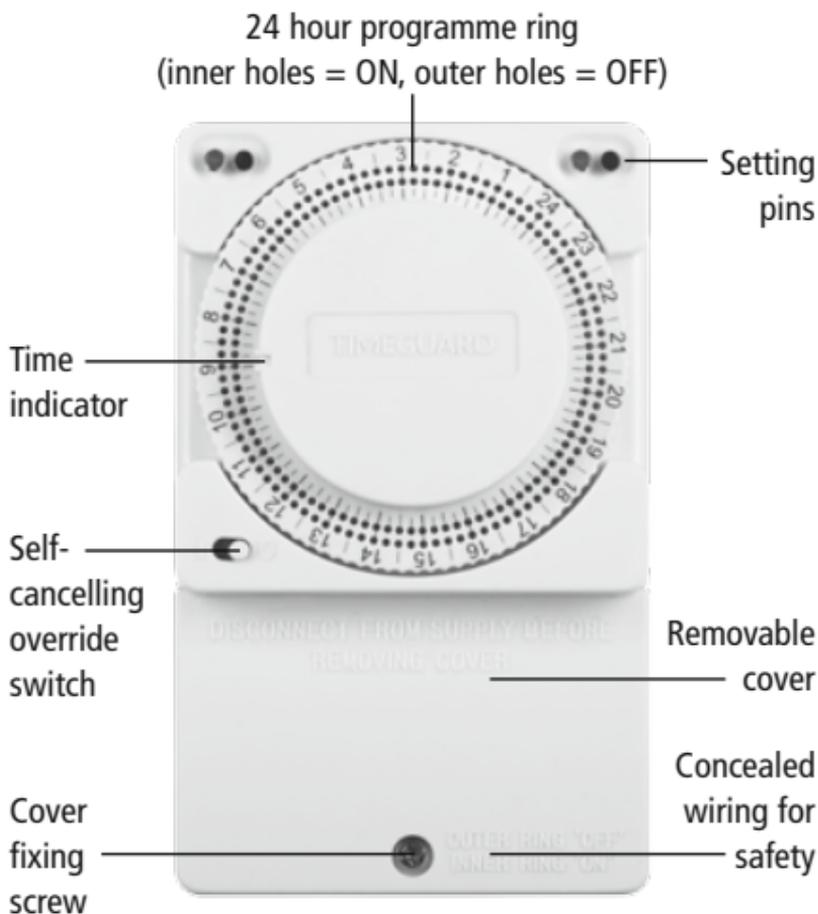
- 230V AC 50 Hz
- This time switch is of class I construction and must be earthed
- Switch Rating: 13A resistive (3kW)  
400W filament lighting  
60W Fluorescent/CFL  
and LED Lighting

The LED switching capabilities of this product can be increased to 200W by the addition of the Timeguard ZV900 Automatic switch load controller – sold separately

- Programme: 24 hour
- Minimum setting interval: 15 minutes
- Minimum ON/OFF time between setting: 30 minutes
- Up to 24 ON & OFF programmes per day (additional pins required).
- Operating temperature: 0°C to +40°C
- CE Approved
- Manual Override: Self-cancelling manual override to the next programme change.

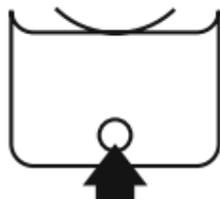
# Note: Not suitable for use with Discharge Lighting.

## Diagram A



## 4. Installation

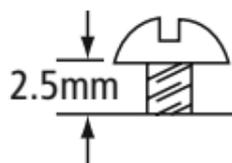
- Ensure the mains supply is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- An isolating switch should be installed to enable the power to be switched ON & OFF for maintenance purposes.
- Remove the terminal cover by undoing the fixing screw on the bottom of the time switch.



4

- Mark the position of the top wall mounting screw and drill the hole ensuring not to infringe with any gas/water pipes or electrical cables that may be hidden below the surface. Insert the rawl plug into the hole.

- Fix the top mounting screw in place (using the correct screw for the rawl plug installed) and leave 2.5mm proud off of the wall.



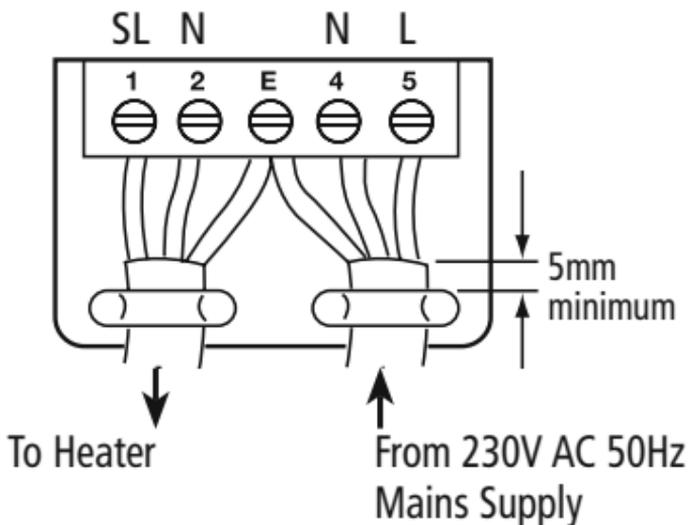
- Place the key hole, located at the top of the product, over the screw head and slide down.
- Mark the position of the lower mounting hole on the wall using the wall plate as a template.
- Remove the unit and drill the hole, ensuring not to infringe with any gas/water pipes or electrical cables that may be hidden below the surface. Insert the rawl plug into the hole.
- Remove the rear cable knock outs if required and pass the 230V 50Hz mains supply and load cables through the holes.
- Secure the unit to the wall by placing the key hole located at the top of the product, back over the screw head and slide down. Fix the lower mounting screw in place (using the correct screw for the rawl plug installed) and tighten to the wall.

Note: The 230V 50Hz mains supply and load cables can also enter through the cable entry ports provided at the bottom of the unit. If you are not wiring through the rear entry knock outs, use the cable clamps provided to secure the cables.

- Terminate the supply and load cables to the terminal block ensuring correct polarity is observed and that all bare conductors are sleeved. Please note the connections are marked beneath the terminal block (see section 5. Connection Diagram)
- Secure the terminal cover back into place using the fixing screw

## 5. Connection Diagram

The terminals are marked as follows on the bottom of the wall plate;



7

### 230V AC 50Hz Mains Supply

Live (Brown or Red) to **Terminal 5**

Neutral (Blue or Black) to **Terminal 4**

Earth (Green/Yellow) to **Terminal E** 

### Load

Switch Live (Brown or Red) to **Terminal 1**

Neutral (Blue or Black) to **Terminal 2**

Earth (Green/Yellow) to **Terminal E** 

## 6. Operation

- Decide what times you would like the time switch to switch ON and OFF.
- Insert a pin in the Inner Circle for an ON period.
- Insert a pin in the Outer Circle for an OFF period.
- The minimum switching interval is 30 minutes, and this can be increased in 15 minute steps.
- Set the correct time of day by rotating the dial clockwise until the correct time is indicated by the Time indicator at the top centre of the time switch.

### Points to note

- Unused setting pins can be stored in the top left and top right of the time switch.
- Remember to reset the time following power failure.

## Manual Override

- It is possible to manually override the programmed time by operating the override switch in the right hand corner.
- 1 = ON. 0 = OFF.
- If you use the manual override it will self-cancel at the next programmed time.
- The override switch cannot be used within 15 minutes either side of a switching time.

## 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 the second and third years or any difficulty in the first year telephone the 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 out.



If you experience problems, do not immediately return the unit to the store.

Telephone the Timeguard Customer Helpline;

HELPLINE  
**020 8450 0515**

or email [helpline@timeguard.com](mailto:helpline@timeguard.com)

Qualified Customer Support Co-ordinators will be on-line to assist in resolving your query.



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