

**TIMEGUARD®**

24 Hour  
Mechanical Time  
Switch with  
Voltage Free  
Contacts

Model: NTT02



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

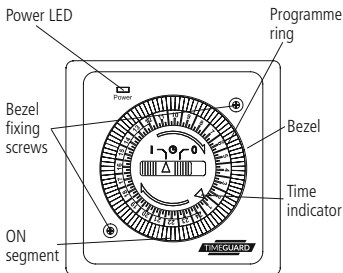
- 230V AC 50 Hz
- Switch Rating: 16A Resistive (3.68kW)  
Immersion Heaters  
750W Incandescent,  
Halogen  
Fluorescent lighting  
100W Compact  
fluorescent lighting  
100W LED Lighting.

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.

- Switch Type: Micro Switch
- Voltage free contact
- Contact Type: Normally Open
- Minimum Depth  
of Wall Box: 32mm

- Manual Override: Permanent ON or OFF
- Power Status LED Indicator: Red
- 24 Hour Time period: Up to 48 programmes per day
- Operating Temperature: 0°C to +40°C
- CE Approved

**Note: Not suitable for use with discharge lighting.**



#### **Time control segments:**

1 segment = 15 minutes,  
push segment down  
for ON, pull up for OFF.

#### **Control switch:**

1 = permanently ON,  
Timer symbol =  
timed control,  
0 = permanently OFF.

## **4. Installation**

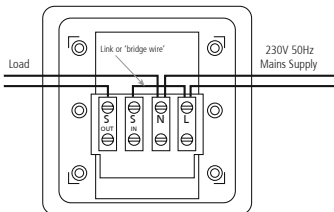
- Ensure the mains supply is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- Remove the two bezel fixing screws, and remove bezel from timer module and wall plate.
- Ease the module forward without disconnecting, so you have access to the wall plate and loosen the screws on the terminal block for both supply and load cables.

- Ensuring that the free terminals on the wall plate are at the top, terminate the 230V 50Hz 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 on the rear side of the wall plate (see section 5. Connection Diagram).
- Fit the wall mounting screws through the wall plate and into the wall box threaded holes, and tighten until the wall plate is firmly fastened.
- Re-position the module back into place ensuring the time indicator is on the bottom right hand side, and the locating holes on the timer are set correctly on the pegs on the back plate.
- Re-fit the bezel over the timer module, and secure to the wall plate with the two fixing screws previously removed.

## 5. Connection Diagram

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

### 230V Mains Voltage Switching

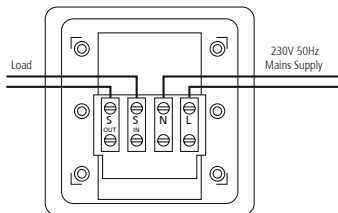


**230V 50Hz Mains Supply**

Live (Brown or Red) to	<b>L</b>
Fit a 'Link' or 'Bridge' between	<b>L &amp; S IN</b>
Neutral (Blue or Black) to	<b>N</b>

**Load**

Switch Live (Brown or Red) to	<b>S OUT</b>
Neutral (Blue or Black) to	<b>N</b>

**Voltage Free Switching –  
e.g. 24V lighting circuit**
**230V 50Hz Mains Supply**

Live (Brown or Red) to	<b>L</b>
Neutral (Blue or Black) to	<b>N</b>

**Load**

Live Input (for voltage free output)	<b>S IN</b>
Switch Live output (to low voltage appliance) to	<b>S OUT</b>

## 6. Operation

- Decide what times you would like the time switch to switch ON and OFF.
- Push the segments down for the duration of an ON period.
- Pull the segments up for the duration of an OFF period.
- The minimum switching interval is 15 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 triangular pointer.

### Points to note;

- As the dial is rotated there will be an increased resistance to turning as ON/OFF periods are passed.
- The segment dial can be turned whilst the time controller is operating.
- In the case of a power failure, re-adjust the time controller to the correct time of day by turning the dial in a clockwise direction until the correct time is indicated by the pointer.

## 7. Permanent Override

- The main slider on the timer can be set to permanent ON by sliding it to the left. This will align the arrow head to the 1 symbol, and the green flag will now be fully visible on the right.
- For normal automatic mode, the main slider can be set to the middle position with the arrow head pointing at the timer symbol.
- The main slider on the timer can be set to permanent OFF by sliding it to the right. This will align the arrow head to the 0 symbol, and the red flag will now be fully visible on the left.

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

Telephone the Timeguard Customer Helpline:

HELPLINE  
**01582 544 548**

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

Qualified Customer Support Coordinators will be online  
to assist in resolving your query.



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