

# TIMEGUARD®

## 16 Amp Electronic 24 Hour/7 Day Time Controller

Model: ELU56



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 controller 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 controller and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this time controller is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.

### 3. Technical Specifications

- Mains Supply: 220 – 240V AC 50Hz
- Temperature Range: -10°C to 40°C
- Switching Capacity: 16A resistive,  
5A inductive,  
500W fluorescent lighting,  
2500W filament lighting,  
80W LED  
Not suitable for  
discharge lighting
- Battery Back Up: Factory fitted rechargeable  
(1000 hours capacity)
- Dimensions (HxWxD): 104mm x 72mm x 69mm
- CE Compliant
- EC Directives: Conforms to latest directives
- Contacts: Voltage free, change over

### 4. General

The ELU56 is a 24 hour/7 day digital timeswitch with a 16 amp resistive switching capacity suitable for general applications where a comprehensive weekly timing routine is required.

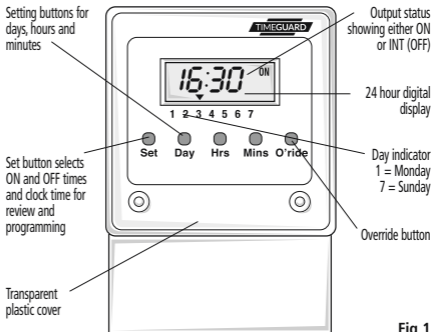


Fig 1

3

The following features are provided:

- 8 ON and 8 OFF switching commands per day – 112 memory locations.
- Change over contacts 16 amp resistive, 5 amp inductive 240V AC 50Hz.
- Self-cancelling ON and OFF manual override.
- Voltage Free Contacts.
- 'Day omit' programme.
- Panel mounting bracket supplied.
- Power reserve approximately 1000 hours.

- Shortest switching interval of 1 minute.
- Out of baseplate programming possible.

The unit has a transparent front cover to protect the controls from accidental change.

## 5. Installation

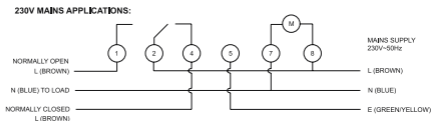
The ELU56 may be mounted in three different ways – wall, panel or rail. The unit is normally wall mounted on the base plate provided. For panel mounting you will require the panel mounting bracket AK.305 enclosed with the ELU56. For rail mounting you will require a quick fixing device Part No. 907-0-071.

4

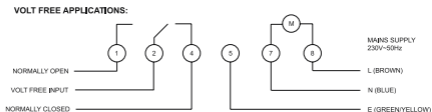
### 5a Wall or Surface Mounting

1. Remove the transparent front cover from the unit.
2. Unscrew the fixing screws in the recessed holes in the face of the switch. Note that these are captive screws and cannot be removed.
3. Pull the timeswitch from the base plate.
4. Secure the base plate to the wall or flat surface.
5. For mains switching (230V AC 50Hz) connect the supply to the terminals according to the wiring diagram, noting that a link is required between terminals 2 and 8, this is due to the option

of having voltage free contacts (see fig 2). Refer to (fig 3) for voltage free contacts wiring. Ensure that all bare conductors are sleeved and that correct polarity is observed.



**Fig 2**



**Fig 3**

6. Refit the terminal cover and plug the timeswitch into the base plate.
7. Re-tighten the fixing screws attached to the face of the unit to the base plate.
8. Switch on the power from the supply line.

9. The programmes and clock time can now be set. If display was blank prior to switching on power, allow the battery to charge for at least 2 to 4 hours prior to programming.
10. Replace transparent front cover.

## **5b Panel Mounting**

1. Remove the base plate and terminal cover as described for wall mounting.
2. Install the timeswitch in a 68mm square hole previously cut in the panel.
3. Lock the timeswitch in position using the panel mounting bracket supplied.
4. For mains switching (230V AC 50Hz) connect the supply to the terminals according to the wiring diagram noting that a link is required between terminals 2 and 8, this is due to the option of having voltage free contacts (see fig 2). Refer to (fig 3) for voltage free contacts wiring. Ensure that all bare conductors are sleeved and that correct polarity is observed.
5. Re-tighten the fixing screws attached to the face of the unit to the base plate.
6. Switch on the power from the supply line.

7. The programmes and clock time can now be set. If display was blank prior to switching on power, allow the battery to charge for at least 2 to 4 hours prior to programming.
8. Replace transparent front cover.

### **Rail Mounting**

For rail mounting use the quick fixing Part No. 907-0-071 which can be supplied as an optional extra.

## **6. Programming**

- Five setting buttons are on the face of the unit.
- The Set button is used to sequence the module in programming mode.
- The Day, Hrs and Mins buttons are used to set the days, hours and minutes required.
- ON/OFF programmes can also be overridden till the third subsequent programme change by using the O'ride button.
- To prepare the module for programming clear the memory by pressing both the Set and Day buttons simultaneously until the display disappears. On releasing the buttons the display will show 0:00 INT with the colon flashing.



## 6a Setting the Clock Time

- To set the clock time press the Set button briefly and release, the display will show 0:00 <sup>SEC</sup>/<sub>INT</sub> with "C" flashing at the right of the display.
- Press the Day button until the black indicator shows the desired day of the week (1-7) i.e. Monday-Sunday.
- Use the Hrs button to set the hours followed by the Mins button to set the minutes to the actual clock time. Holding down the either the Hrs or Mins buttons will achieve a rapid selection.
- If the Set button is now pressed briefly and then released, the display will return to the correct time of day with the colon flashing.
- The module is now in its operating condition and will switch "ON" and "OFF" according to the programmes set. To alter the clock setting subsequently there is no need to clear the memory first.
- Note: Pauses of 15 seconds or more during setting the clock will result in an automatic return to the operating condition.

- Important: After setting a clock time which falls within a programmed "ON" period, the unit will not switch "ON" The programmed time must be after the current time on the clock for the programme to be switched on. If you require the programme to be "ON" and clock time falls within the programmed time use the override button which will turn on the unit until the next programmed "OFF" sequence.

## 6b Planning The programmes

- A programme is a pair of ON/OFF settings which will dictate when the load will switch "ON" and "OFF".
- Programmes can be set before or after setting the clock time.
- Programmes can be carried over midnight by programming the required "ON" time and then "OFF" at 0:00 for the first day, followed by an "ON" at 0:00 and the required "OFF" time for the second day. Please refer to the table on page 10 for the setting a programme using this method.

Across Midnight	Programme On Time Day 6 (Saturday)	Programme Off Time Day 6 (Saturday)	Programme On Time Day 7 (Sunday)	Programme Off Time Day 7 (Sunday)
ELU56	20:00	0:00	0:00	6:00

### 6c Setting Programme 1

- Press the Set button and hold it down for about 3 seconds until the display shows  $--:-- \text{ON}$  with a flashing "1" (indicating programme 1) appearing underneath the "ON" indicator and the day indicator will point to day 1.
- To programme the first ON/OFF times for day 1 set the "ON" time required by pressing the Hrs and Mins buttons separately until the desired time is displayed. Press the Set button briefly and the display will show  $--:-- \text{INT}$  with "INT" appearing underneath the flashing "1".  
Note: INT = Interrupt and means "OFF".

- The First "OFF" time for day 1 can now be programmed by using the Hrs and Mins buttons.
- Press the Set button briefly and the display will show --:--<sup>00</sup> and the programme 2 "ON" time can be entered as for programme 1.  
Note: Pauses of 15 seconds or more during programming will result in an automatic return to the operating condition.
- Programming the module for day 1 should continue in this way up to programme eight if so desired.  
Note: It is not necessary to enter all eight programmes available to you on this day, those not required should be left blank (---:---). You can also day omit by not programming any ON/OFF times on the day you require no switching on the unit.

### **6d Setting Programmes – Day 2, 3 etc.**

- If the display still shows a day 1 "ON" or "OFF" programme press the Day button and the day indicator will move above day 2. If, instead, the display shows the clock time with the colon flashing press the Set button and hold down for about 3 seconds until the display shows the first programme "ON" time for day 1.

- Press the Day button again briefly and the day indicator will move above day 2. In either case the display will change to --:-<sup>ON</sup> with a flashing 1 (indicating programme 1 on day 2) appearing underneath the "ON" indicator.
- The required programmes can now be set for day 2 in the same way as for day 1. Days 3 to 7 can be programmed in the same way as for days 1 and 2.
- Once the programming is complete press the Set button and hold down for about 3 seconds until the display returns to the correct time of day with the colon flashing. The module is now in its operating condition.

### **6e Suspending programmes**

- Press and hold down the Set button for about 3 seconds until the first "ON" programme, day 1 is displayed.
- Press the Day button repeatedly until the day indicator points to the day on which you wish to suspend the ON/OFF time.
- Press the Set button repeatedly until the "ON" or "OFF" time of the programme you wish to suspend is displayed.

- Press the O'ride button. A black "X" will appear indicating that both the "ON" and "OFF" times for this programme have been suspended until reinstatement by the user. There is no limit to the number of programmes you can suspend.
- To reinstate a suspended programme return to either the "ON" or "OFF" time of the programme which has been suspended and cancel the black "X" by pressing the O'ride button. The ON/OFF programme will now operate on the selected day.

## 7. Overriding The Module

To override the programme in operation, and to immediately switch the device ON or OFF, simply press the O'ride button. The display will change from "ON" to flashing "INT" or vice versa. The override automatically cancels when the third subsequent programme change occurs.

## 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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