

This document must be retained for future reference.

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

All connections (including factory made) must be checked for the correct tightness prior to commissioning of the electrical installation. All connections should also be inspected periodically to ensure correct tightness.

DO NOT USE POWER TOOLS ON THESE PRODUCTS



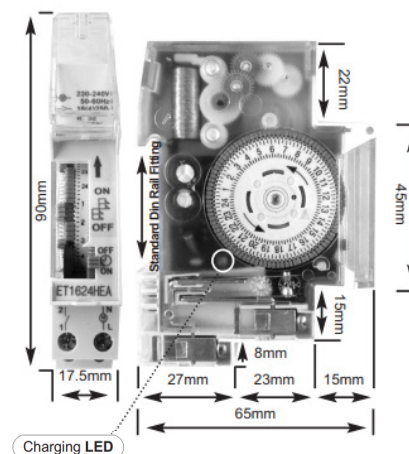
## ET1624HEA

## Operating Instructions

## Important notice to installers

Before installation work starts the operating instructions should be read and understood. If you need technical assistance please contact the manufacturer at the address shown on this leaflet. Installation of this unit should only be undertaken by a skilled electrician working to the standards set by the latest edition of the IEE wiring regulations.

The unit is designed to withstand reasonable levels of interference from external sources such as voltage peaks in the electricity supply. If however the supply is known to be subject to unusual levels of interference then measures to protect the device from this need to be taken by the installer. Similarly the output relay is designed to switch a resistive load. If inductive or capacitive loads need to be switched it is suggested that a suitably specified slave device such as a contactor or relay be used to carry out the switch duty.



## Electrical connections

230V mains supply to terminals marked L & N

Switched, volt free, output is across terminals marked 1 & 2.

The switch across terminals 1&2 is closed when the timer is ON & is open when the timer is OFF

Your Neutral is NOT to be connected in Terminals 1 or 2.

## Mounting the Unit

The device is rated at IP 20 and as such provides finger protection but no immunity to fluids.

It is designed to be fitted on a Din rail within a suitably IP rated enclosure.

Visit [www.europacomponents.com](http://www.europacomponents.com) to select an enclosure from the broad range on offer.

Efforts should be made to ensure that the device is not subjected to undue vibration. Methods such as resilient mounting of the enclosure should be employed to keep levels to a minimum.

## Technical Data

Supply Voltage:	230Volts 50/60Hz AC
Voltage Tolerance:	220-260Volts AC
Output relay rating:	16Amps AC1 resistive
Output relay type:	Single Pole (volt free)
Power consumption:	<1 Watt
Drive Method:	Quartz controlled stepper motor
Set Period of relay:	Minimum of one 15 minute period in 24 hours Maximum of 96 settable periods in 24 hours
Accuracy:	<±3 Seconds per Day at 22°C
Ambient temp range:	-10°C to +50°C
Operating Humidity:	<85%
Working reserve:	72 hours

## ET1624HEA Din Rail Mounting

## Initial setup

In order to programme the unit the internal battery will need to be charged. To do this you will need to connect a live feed to the unit for about ten minutes. The set up procedure can then be done with the power disconnected. It will take three days of charging to reach the full reserve time of 72 hours. The charging LED will flash to indicate charging, the LED will cease to flash when charging is complete.

## Setting the master clock ( as viewed from the front Face)

Lift the bottom edge of the hinged plastic cover from the top face of the timer. You will be able to see a number of blue segments on the left hand side of a wheel. To the right of the segments a number of digits are printed which represent the hours of the day. It should be noted that the timing wheel covers 24 hours in one rotation with each hour clearly marked. The 15 minute subdivisions are also shown between each hour marker. Using your finger move the wheel of the timer in the direction of the black arrow, ie upwards. You will notice a small plastic triangle which points leftwards across the face of the wheel. The wheel needs to be rotated until the correct time is set adjacent to the triangle.

The master clock has now been set.

In the picture the master clock time has been set to 03:15 Hrs.

## What the timer can do


The timer has 96 segments on the wheel, each segment relating to 15 minutes. Any segment can be used to operate the time relay either in discrete 15 minute intervals or in multiple blocks of 15 minutes together. For example, in the picture the timer has been set to come on for one hour at 01.00Hrs (4 segments) and half an hour at 03.00Hrs (2 segments).

## To Programme the Timer

The blue segments to the left of the timing wheel can be moved individually or in blocks. To enable them to work they need to be moved across to the left. As the wheel progresses with time, the segments move round to the small plastic triangle pointer. As they move past this pointer the relay is forced into the closed position.


Having adjusted the time periods as required the master clock should be set as described in the section 'setting the master clock'

## Enabling the programme to run

When viewing the top face of the timer in the bottom right hand side you will see a blue button. Next to this are the markings ON, , OFF

Use your finger to slide the button up and down.

In the ON position the timer is overridden and the relay is permanently forced into the open mode.

In the  position the time will run to the programme set.

In the OFF position the master clock will run but the relay is permanently forced into the closed mode.

