

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



## ET167D2C 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 level 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 (see figure 1 below)

Supply Voltage Live to Terminal marked L

Supply Voltage Neutral to Terminal marked N

Channel 1 Terminals 1, 2 & 3 where 2 is common, 2 to 1 is N/O and 2 to 3 is N/C.

Channel 2 Terminals 4, 5 & 6 where 5 is common, 5 to 4 is N/O and 5 to 6 is N/C.

### Technical Data

Supply Voltage	230/240Vac 50/60 Hz
Output Relay C1 and C2:	16A (AC-1), 240V
Power Consumption:	10VA max
Shortest switching Time:	1 Minute
Ambient Temp Range:	-10°C to +50°C
Accuracy:	<+2 Sec/Day @ 20°C
Incandescent Lamp Load:	2300W
Halogen Lamp Load:	2300W
Power Reserve:	Approx. 4 years with display via Lithium Battery

## ET167D2C Din Rail Mounting

### Initial setup

The Timer is delivered in Sleep Mode.

To increase the power reserve the timer clock changes to the sleep mode after approx. 10 minutes when no buttons are pressed.

To activate without mains voltage briefly press the Menu button. You will see three flashing dots in the centre of the display. This indicates power reserve mode.

To activate with mains voltage firstly connect the supply voltage to terminals marked L for Live and N for Neutral. Two dots will flash when supply voltage is applied to indicate service voltage is OK.

Relay contacts will only operate when the service voltage is applied. Therefore the timer can be set up prior to connecting a supply voltage.

If the timer is already programmed, the actual time, the weekday, and the changeover setting for Summer/Winter time and the channel status appears on the display.

If the timer is NOT programmed then you must first select your choice of language followed by the actual Time and Date.

### Setting Language, Time and Date

Select Language by pressing the + or – buttons to move through the selection of countries. Store your required selection by pressing the OK button.

Set the year by pressing the + or – buttons to select the year followed by the OK.

Then set the month followed by the day.

Set the Hours by pressing the + or – buttons followed by the OK.

Set the minutes in the same way and press OK.

This is a 24Hour clock.

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Select Language by pressing the + or – buttons to move through the selection of countries. Store your required selection by pressing the OK button.

Set the year by pressing the + or – buttons to select the year followed by the OK.

Then set the month followed by the day.

Set the Hours by pressing the + or – buttons followed by the OK.

Set the minutes in the same way and press OK.

This is a 24Hour clock.

## Programming, Viewing or Deleting

This is a TWO channel timer and either channel can be selected for programming, Viewing or Deleting.

Press the Menu button and confirm by pressing the OK button.

New Prog appears in the window.

Either confirm with OK button or use the + / – buttons to select Check, Modify, Clear, or End.

Free No. XX. The number of settings free to program will be displayed. Press OK.

Channel C1 is displayed.

Use +/- to Select C1 or C2 as required. Press OK.

C1 ON is Displayed.

Use +/- to Select C1 ON or OFF Set as required. Press OK.

Select the Hours. Press OK.

Select the Minutes. Press OK.

Select the Day. Press OK.

Select Copy if you wish to carry the setting to another day of the week.

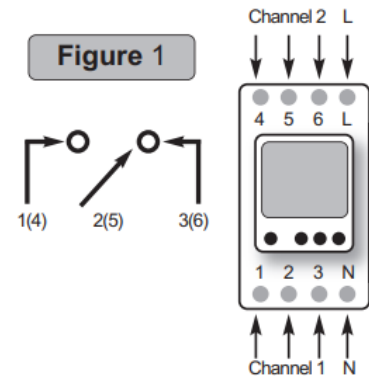
Add next day OK or + button to say NO.

Press + Button until Store appears and Press OK.

New Prog Press OK to repeat this procedure for the OFF time.

Remember to set the Channel 1 or 2 and OFF time.

By pressing the MENU button you can escape from setup mode at any time, confirm with OK button



## To Check your settings

Press the Menu button and confirm by pressing the OK button.

New Prog appears in the window. Use the + Button to step through to Check menu and Press OK.

Check appears

C1 OK, to check C1 settings. Or + Button to select C2 if you need to check these settings.

By pressing OK you step through your settings or press + to go Next, Clear, Modify or End.

If no buttons are pressed within five seconds then the display goes back to showing the time and date.

## Override

Press – and + Buttons simultaneously for approx. 1s. Each time this is done it will switch C1 of the timer on or off. A hand symbol appears.

## Permanent ON or OFF

Press – and + Buttons simultaneously for approx. 3s. Each time this is done it will switch C1 of the timer on or off. A hand symbol and Dot appears.

To cancel briefly press the two buttons again.

Individual settings can be deleted pressing MENU then OK, press + or – to go to the Clear screen and press OK. Select Single or All followed by channel number and Day then confirm with OK.

## Automatic Summer/Winter Time correction.

According to the version, the timer is pre-programmed ex-works complete with the changeover

Should you switch off the automatic facility or wish to alter it, Press Menu then + Button.

Use the OK Button to OK Time and Date settings until Sum/Win is displayed, Press OK

Select with Sum/Win or + Button for NO Sum/Win and then OK.

GB/P will be displayed or use the + Button to select another area or set your month and date.

Select by pressing +/- and store by pressing OK.

## Time and Date Correction

Press Menu then + Button then the OK Button.

Use the +/- Buttons to enter correct Date and Time, Press OK to Store.

Press the MENU button to escape, confirm with OK button.

## Pin Code

The Timer can be locked with a four digit code number.

Select the Manual Menu by pressing Menu then + Button until Manual appears then OK.

The Hand and Dot appears to show you have entered Manual mode.

Select Channel 1 or 2 and OK.

Select with PIN (or NO PIN if cancelling.)

Use the + button until the required PIN number appears and then press OK.

Make a note of this number.

The next time you press menu you will need to enter this code.

Important: If you need to send the Timer back under warranty, please include this code.

Failure to do so will invalidate your warranty claim.

## RESET

Only press the reset button in case of emergency as all settings will be deleted.

To perform a reset Press the RESET button with a pointed object for approx. 1 second.

