

# **EMU9000 Instruction Manual**

## 24 Hour, 7-Day Digital Timer Module

This Timer is suitable for installation as a time controller for various types of appliances or equipment.

### **Features**

- 12 memory locations (6 on 6 off).
- Self-cancelling override.
- Simple Summer/winter time change over.
- Permanent ON or OFF facility.
- Battery back-up, retains clock time and programs during power loss.
- Program review.
- 24 hour, 7 day, weekday and weekend programming.
- Single pole double throw voltage free contacts.

### **Attention:**

This unit must be installed by a skilled electrician in accordance with the current I.E.E. Wiring Regulations. Turn off the main supply switch before installing the unit to avoid accidental or electric shock

### **Connection**

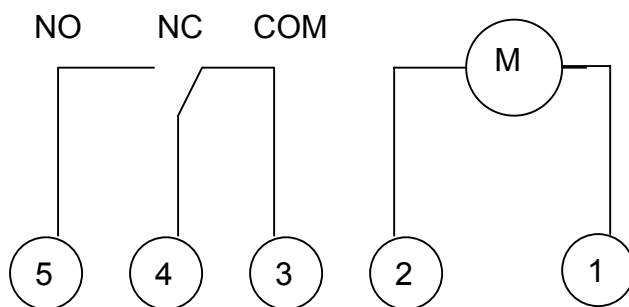
In order to ensure the greatest possible degree of operational safety, please follow the details when connecting the unit.

The device should not be installed close to inductive loads.

A separate line for the mains supply should be laid from the consumer unit

Inductive loads must be interference suppressed (varistor or RC element)

If DC inductive loads are switched, it is necessary to install a suppressor diode.



Rear View of Timer

### **1. Initial Operation**

1.1 Power on the Main Switch for approx. 6minutes to charge the unit

1.2 Use a pointed object (e.g. a pencil) to depress 'RST' (Reset) button to delete all information you have set up before.

## 2. Time setting / Time Correction

Set up current time before you enter any ON/OFF programs.

2.1 Keep 'TIME' key depressed while you are setting or correcting the current time

2.2 Depress 'DAY' key once to advance current day.

2.3 Depress 'HR' (hour) key once to advance one hour.

2.4 Depress 'MIN' (minute) key once to advance one minute

**Note: Pressing the keys DAY, HR or MIN for more than 2 seconds will initiate a fast run through.**

## 3. Programming / Review the switch-on and switch-off times

3.1 Depress the 'PRG' (Programming) key once. You will then see PROG 1 ON shown on the LCD display, which indicates the switch-on time command to be entered.

3.2 Depress 'DAY' key to choose the day's group you wish to switch-on the appliance. The days group will advance in the sequence of MO TU WE TH FR SA SU→MO→TU→WE→TH→FR→SA→SU→MO TU WE TH FR→SA SU→MO TU WE TH FR SA→MO WE FR→TU TH SA.

3.3 Depress 'HR' key once to advance one hour

3.4 Depress 'MIN' key once to advance one minute

3.5 Depress 'PRG' key again to advance to next PROG 1 OFF, which indicates the switch-off time command to be entered. Then follow steps 3.2 to 3.5 through the rest of the program.

3.6 Although there are 6 switching-on and 6 switching-off programming memory locations be sure to depress the 'TIME' key after programming or reviewing the contents of the memory locations. Otherwise these switching times will not be carried out. The unit will switch to existing time mode automatically if no key is pressed for 2 minutes

**Note: Pressing the DAY, HR or Min key for more than 2 seconds will initiate a fast run through.**

## 4. Recall Function

If for some reason you do not want some of the switching times to be carried out, without losing the preset memory, you can use the 'RCL' (recall) key to enable or disable the execution of a program.

4.1 Depress the 'PRG' key until the preset memory location is displayed

4.2 Use a point to depress 'RCL' key to enable or disable the switching command.

4.3 The display shows ' - :- - ' for the hours and minutes indicating that the specified memory location will not be carried out. If it shows the preset contents of hour and minute this indicates that the specified memory location will be carried out.

4.4 The preset memory will be recalled once you depress the key of 'DAY', 'HR' or 'MIN'. If the memory location is disabled (LCD display - :- -)

**Note: be sure to depress the 'TIME' key after programming review of the contents of the memory locations, otherwise these switching times will not be executed.**

## **5. Summer / Winter Time Change Over**

It is possible to change from summer to wintertime and visa a versa with the aid of this simple function. **Initially the clock must be set to wintertime irrespective of the time of year.**

5.1 To change from wintertime to summertime, simultaneously press the 'TIME' key and one of the override buttons. The LCD display will indicate '+1h'

5.2 To change from summer time to wintertime simply repeat 5.1 and the '+1h' will disappear from the LCD display.

## **6. Manual Operation**

This function is useful for example turning the appliance off for holiday periods, remembering to reset upon your return.

The LCD displays the operational status of the timer as follows:-

|          |  |
|----------|--|
| AUTO OFF | The unit is operating by its program and is currently off. |
| AUTO ON  | The unit is operating by its program and is currently on.  |
| ON       | The unit is permanently on                                 |
| OFF      | The unit is permanently off                                |

To over-ride the operational status, simply press the override key to switch the status. The sequence loop is as follows:-

AUTO OFF→ ON→AUTO ON→OFF→

### **Technical Data**

|                                |                                     |
|--------------------------------|-------------------------------------|
| Dimensions H x W x D mm        | 60 x 60 x 32                        |
| Switching outputs              | Relay (SPDT Type)                   |
| Operating Temperature          | 0°C to 55°C                         |
| Accuracy Deviation             | ±1.5 sec/day at 23°C                |
| Power Reserve                  | 150 hours min at 20°C               |
| Battery                        | Rechargeable built-in Ni-Cd Battery |
| Time Base                      | Quarts                              |
| Memory locations               | 12 (6 on 6 off)                     |
| Shortest switching interval    | 1 minute                            |
| Programming intervals          | 1 minute                            |
| Summer winter time change over | Yes                                 |
| Program recall                 | Yes                                 |
| Operational Status indicator   | LCD display                         |
| Power Consumption              | approx 5.5VA at 240V 50Hz.          |
| Contact rating                 | SPDT 16(4)A 240V 50Hz               |
| Operating Voltage              | 220 to 240V 50Hz                    |
| Protection Class               | IP00                                |

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