

Seven Day Single Channel Electronic Timeswitch

Models 811 and 851

User Instructions

DESCRIPTION

Models 811 and 851 are identical in appearance except for the model number shown on the fascia.

The **Day** and **Time** are displayed as five digits on the liquid crystal display (LCD).

The first digit in its separate window marked **Day** will be a numerical from **1** to **7** which may be allocated in sequence to the days of the week at the user's discretion. The normal convention is Monday = 1, Tuesday = 2 Sunday = 7.

The remaining four digits in the window marked **Time** will display the time to a resolution of one minute from 0000 to 2359.

A short 'bleep' will be heard when a keypad is pressed. In addition when a numeric keypad is pressed the associated digit on the LCD will either blink or change.

There are five red indicator lights. Four are associated with the keypads '**Extend**', '**Enter on**', '**Enter Off**' and '**Crop**', and one labelled '**Output**'.

The 2 position selector switch may be set to **Off** to override the programmes or it may be set to **Auto** to follow the programme which has been set. The programme indicator lights will switch on and off to follow the set programme events in both the selector switch positions but the output status indicator light will only be on if the selector switch is at **Auto** and either the **Enter On** or **Extend** indicator lights are on.

If the **Enter On** and **Crop** indicator lights are On the output status indicator light will be off.

It is recommended that the key be removed from the keyswitch to prevent unauthorised or accidental changes to the settings. The key can only be removed when in **Run** position.

TIME OF DAY

The mains electricity supply must be ON, the key inserted and turned to **Set Time** position before carrying out the operations detailed below.

When the timeswitch is first connected, or when the battery has been allowed to discharge fully, and the mains electricity supply is switched ON a dash (-) will be displayed in each of the five digit positions.

Decide which day of the week you wish to assign as Day 1.

Press the number key representing the current day of the week (listen for the 'bleep').

The remaining days will be automatically numbered in sequence.

Key in the time using four keypads e.g. 8:30 a.m. must be keyed as



and 6:15 p.m. as

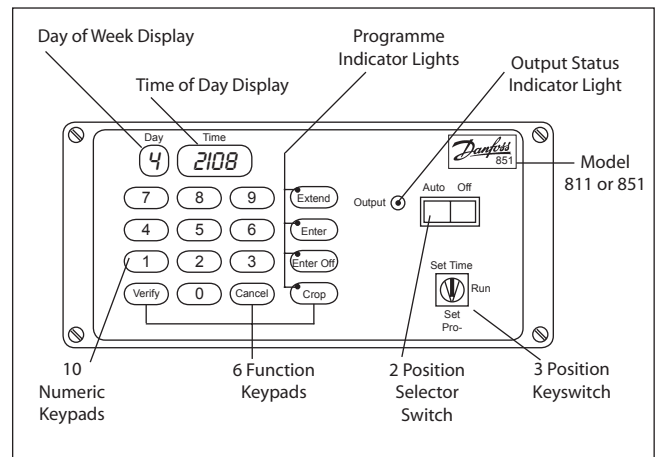


The unit will not allow the entry of a spurious day or time e.g. day 8 will not be accepted nor will a time entry of 3600. Depression of an out of range key will not register on the display; the LCD digit will blink but remain unchanged until an acceptable number is keyed.

DO NOT PRESS ANY FUNCTION KEYPADS.

Returning the key to the **Run** position will enter the time shown on the display.

CAUTION: The unit operates at mains voltage and should only be opened by a qualified engineer after disconnection from the mains supply.



SETTING SWITCHING TIMES

The mains electricity supply must be ON, the key inserted and turned to the **Set Programme** position before carrying out any of the operations detailed below.

Initially the display will show



indicating that the memory is empty.

Since the timeswitch is capable of automatically carrying out up to 200 switching operations it is recommended that the required programme be tabulated before setting is commenced, noting that the day number on display is the current day of the week. A table is provided for this purpose.

It is not essential to key in the programme in sequence since it will automatically be sorted into chronological order.

To set a programme event:

First press the number key representing the day of the week to be programmed.

Secondly, key in the time using four numeric keypads in the range 0000 to 2359.

Finally press '**Enter On**' or '**Enter Off**' to enter the required event into the memory.

The unit will not allow the entry of a spurious day or time e.g. day 8 will not be accepted nor will a time entry of 3600. Depression of an out of range key will not register on the display; the LCD digit will blink but remain unchanged until an acceptable number is keyed.

Proceed with the programming of every event using the same entry sequence.

If an attempt is made to exceed 200 programme events then the display will show



indicating that the memory is full.

If an incorrect key is pressed then press the 'Cancel' key and recommence the sequence.

If a programme event is repeated at the same time on different days then the keying may be simplified as follows.

Key in the first event using the normal entry sequence. Now simply key in the new day number and then 'Enter On' or 'Enter Off' as required.

The complete programme may be checked by the use of the 'Verify' key. Each press of this key will advance the programme by one event allowing a complete review in chronological sequence commencing from the day and time on display. If a particular day's programme is to be reviewed then key the day number followed by



when the first programmed event for that day will be displayed then proceed with repeated presses of the 'Verify' key.

When reprogramming one or more events, unwanted events must be cleared by advancing to the event in question using the 'Verify' key as explained above and then clearing it by a single press on the 'Cancel' key.

To clear the entire programme, press and hold down the 'Cancel' key for approximately 3 seconds until the display shows



On completion of the programming return the key to **Run** and the selector switch to **Auto**.

Extend Facility

The mains electricity supply must be **ON** and the keyswitch set to **Run** before using the facilities detailed on this page.

The unit is supplied with an extend facility to allow additional periods of operation without disturbing the set programme.

The extend period is set to 1 hour, but at the time of installation this can easily be altered.

To alter the extend period:

Insert the key and turn to **Set Programme**

Press 'Extend' and the display will show the extend period.

Press any of the numerical keypads to alter the extend period to 1 to 8 hours or 0 to disable the function (display will show 'nil'), or 9 for a constant extend period (display will show 'con').

Once the required extend period is displayed, press 'Enter On' and the new extend period will be stored.

Using the Extend Function:

With the keyswitch set to **Run**, pressing 'Extend' activates the additional period of operation.

If the key is pressed when the output is 'Off' it will switch on immediately and will automatically switch off after the extend period has elapsed. The associated red indicator light will be illuminated throughout the extend period.

If the key is pressed when the output is 'On' the current 'On' period will be extended by the length of the extend period. The red indicator light will be illuminated until the output is switched off.

The Extend facility may be cancelled at any time by pressing the key again, when the indicator light will go out and the unit will revert to the set programme.

Crop Facility

This facility enables a current 'On' period to be cancelled without having to disturb the set programme.

If the 'Crop' key is pressed when the output light is illuminated it will switch the output off until the next programmed 'On' event. During the remainder of the present 'On' period the associated red light will be illuminated and the output light will be off. The programme event light will remain unchanged.

Pressing the 'Crop' key again will cancel the Crop facility and restore the unit to the set programme.

Note: Pressing the 'Crop' key when the output is already programmed to be off will have no effect.

BATTERY RESERVE

The unit does not rely on the internal battery in order to work satisfactorily providing the mains power supply is connected to the unit. The battery is fitted purely to memorise the Time of Day and selected Switching Times in the event of a power failure or disconnection of supply.

When the unit is first connected it will require a minimum of 24 hours to become sufficiently charged in order to perform this memory function. Thereafter the battery is automatically recharged.

If the mains power supply is lost, for any reason, the display and lights on the unit will go out and the output will be switched off. The battery will maintain the memory for a period of up to 3 months during this condition. When the power supply is restored, the unit will automatically switch on again and resume the set programme without any resetting being necessary.

| Example | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | | Saturday | | Sunday | |
|------------------|--------|------|---------|------|-----------|------|----------|------|--------|------|----------|------|--------|--|
| Assigned Day No. | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| Event/Time | ON | 0830 | ON | 0929 | ON | 0436 | OFF | 0034 | ON | 0929 | ON | 0853 | / | |
| | OFF | 1342 | OFF | 2317 | OFF | 1129 | ON | 0708 | OFF | 2317 | OFF | 1342 | | |
| | | | | | ON | 1916 | OFF | 1723 | | | | | | |

| Record | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | | Saturday | | Sunday | |
|------------------|--------|--|---------|--|-----------|--|----------|--|--------|--|----------|--|--------|--|
| Assigned Day No. | | | | | | | | | | | | | | |
| Event/Time | | | | | | | | | | | | | | |



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