

Helpful Hints

1. The + and - buttons are used to change times. Press and release for small changes; press and hold down and the time will 'run'.
2. You cannot set the first switch on time (ON1) before mid-night but you can set the OFF2 after mid-night so long as you don't try to exceed 23 hours 50 mins after ON1.
3. The four switching times have to be in sequence (ON1, OFF1, ON2, OFF2) if you try to set OFF1 earlier than ON1 the display will stop at the ON1 time with the OFF symbol flashing. The same thing will happen with other switching times e.g. between OFF1 and ON2, this time the ON symbol will flash.

4. If you attempt to set the ON1 time after the OFF1 time, the ON symbol will flash and the OFF1 setting will follow the ON1 time being set to prevent incorrect programming. The same feature applies with the ON2 and OFF2 times and also between the OFF1 and ON2 times.
5. If you get confused and wish to start the whole programming procedure again, press the SET and + buttons together for a moment. The timeswitch will revert to mid-night time display and the built-in standard programme. You will now have to set the clock again and then enter the programme you want.
6. When you are making adjustments to timings, if no button is pressed for 1 to 2 minutes, the programmer will automatically revert to the normal operating mode.

Installation

MAKE SURE MAINS INPUT HAS A 3 AMP FUSE

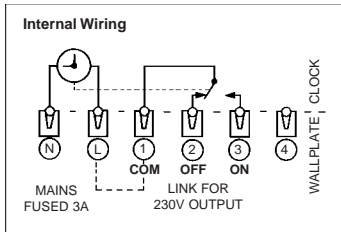
Installation should be carried out by a qualified electrician or heating engineer.

Position the wall-plate with 70mm clearance to its right, 25mm above and access to the securing screws underneath. Ensure that the supporting surface will fully cover the back of the timeswitch. The ideal location is 1.4M above floor level, accessible, reasonably lit and free from condensation or extremes of temperature.

Fix the wall-plate, terminals at the top, either direct to a flat wall using wall plugs and No. 6 x 1" woodscrews or on a flush mounting single conduit box type UA1 (BS4662) using M3.5 x 14 screws.

DO NOT use a surface mounting box.

Make wiring connections as shown in the diagram below.



CONFORMS TO THE ESSENTIAL REQUIREMENTS OF THE FOLLOWING DIRECTIVES:
89/336/EEC - Electromagnetic compatibility
73/23/EEC - Low voltage Directive



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Installation

User Guide

LP711 7 Day Electronic Timeswitch

The LP711 is an electronic timeswitch which will automatically switch ON and OFF once or twice a day, whichever you wish and at whatever times you choose each day of the week. You also have the option to obtain continuous ON or OFF operation.

It has the advantage of a battery back-up system to protect the switching times during power cuts or shut-downs. The timeswitch display will only be maintained for about 1 hour during a power loss to preserve the battery life.

Technical Data

Type: LP711 Timeswitch

Voltage: 230V AC +10% -15% 50Hz

Rating: 2 (1) A 230 V AC

Ambient Temp: 0°C to 45°C Operating
- 20°C to 50°C Storage

Battery Reserve: Display - typically 1 hour
Timekeeping - 7 to 8 hours
Programme - Min 1 1/2 Years

Programming Resolution: 10 minutes

Wiring: Designed for fixed wiring only to comply with current I.E.E. regulations

Maintenance: No user maintenance should be attempted.

Invensys Climate Controls continuously seek to improve products and reserve the right to make changes without notice.

Programming

The clock in the LP711 has to be set to the actual day of the week and time of day. It must then be told at what times you want it to switch ON and OFF. This set of switching times is known as a programme.

The LP711 has an in-built programme of standard switching times. They may well be right for you, but if they

are not exactly what you want you can change them.

The standard programme is shown in the table below, and, for simplicity, the switching operations are described as ON1, OFF1, ON2, and OFF2 from now on in this leaflet.

Setting the Clock

Switch on the mains supply to the LP711 and hinge down the front cover. Press and release the button marked SET.

The question SET CLOCK ? will appear in the display. Press and release the button marked YES to answer the question and the day part of the display will flash. Use the + and - buttons to change to the correct day then press SET again.

This will cause the hour part of the display to flash. Use the + and - buttons to change to the correct hour (check

AM or PM) then press SET again.

The display will now show SET PROG ? (see later instructions for changing your programme). Press the SET button again and the display will now show TEST ? (again see later instructions). Press SET once again and the display will show actual time of day and day of the week you have set.

Your timeswitch is now in the operating mode and ready to work using the built-in standard programme times.

SWITCHING	STANDARD PROGRAMME		YOUR PROGRAMME	
	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN
ON1 - Start of first timed 'ON' period of day	6.30 am	7.00 am		
OFF1 - End of first timed period	8.30 am	9.00 am		
ON2 - Start of second timed period	4.30 pm	4.00 pm		
OFF2 - Final switch off	10.30 pm	11.00 pm		

Programme Options

The LP711 gives you a choice of 4 options:

OFF: Off all the time.

TWICE: On for two periods each day.

ONCE: On for one period each day (ON1 → OFF2).

ON: On all the time.

Obtain the option you require by using the SELECT button to move the arrow in the display to the appropriate position.

Your timeswitch is now working using the standard programme times.

If these suit your needs there is nothing else to do.

You can temporarily override the normal switching times by pushing the button marked ADVANCE.

This switches OFF to ON or ON to OFF as you require, but the normal switching times will not be permanently affected.

If you want to make changes to the programme, it is suggested you write them down before making the changes.

Changing your Programme

With the timeswitch in the operating mode and the display showing the actual time of day, press the SET button. The display will show SET CLOCK ? but this has already been done so push the SET button again.

The question SET PROG ? will appear and as it is the programme timings which are to be changed answer by pressing the YES button. The display will now ask SET MON → FRI PROG ?.

NOTE: The grouping of days in this way is to enable timings which apply to each and all of the weekdays to be set first, followed by the opportunity to change one or more timings for any single day.

So firstly, if you wish to set timings which will be the same for each weekday, press the YES button and make the required changes. If not, (or when the changes are complete) press SET and this will change the display question to SET MON PROG ? Answer YES if you wish to make changes to Monday timings or press SET to change the display question to SET TUE PROG ? Again answer YES to make changes to Tuesday timings or continue to operate the SET button to access each weekday in turn.

After any Friday changes have been made press SET and the display will ask SET SATSUN PROG ? This gives you the chance to set timings which will apply to both weekend days by answering YES. Further operation of the SET button accesses SAT and SUN for individual timing changes.

Pressing SET after finishing any weekend programme changes, or pressing SET in answer to SET PROG ?, will cause the display to ask TEST ?.

By answering YES you can carry out a fast check of programme timings (see later instructions) but if this is not required, a further press of SET returns the timeswitch to the normal operating mode with the current time of day displayed.

If you answer YES to any of the programming questions the following steps will apply.

The display will now show the time set for the first switch on (ON1) to occur for the day(s) concerned. This can be altered in steps of 10 minutes by the use of the + and - buttons. When the display is showing the time you want, press SET and the OFF1 time will be seen.

Again changes may be made with the + and - buttons before pressing SET to display the time for ON2 to occur. After making any adjustments press SET again to get the OFF2 time displayed. This may be adjusted up to 23 hours 50 mins after the first switch on time.

Further operations of the SET button will take you through any remaining days of the week to be programmed before arriving at TEST ?. Pressing SET one final time returns the LP711 into the operating mode and ready to work at the times you have set.

Programme Test

As described earlier, there is a place in the programming sequence where you will be given the opportunity to answer YES to the question TEST ?. This feature is available so you can quickly run through the ON and OFF times set to make sure they are what you want.

Answer YES and the display will show a time just past midnight on the morning of the day of the week you are actually in. Now press and hold down the YES button again. The time display will start to "run" and will pause for 2-3 seconds when it reaches the ON1 time for that day, the ON indicator light will be energised as will the circuit being controlled.

If you release the YES button the display will stop running and give you more than 2-3 seconds to think about a switching time.

Continue pressing YES and the display will now "run" to the OFF1 time when it will pause again and the timeswitch will switch off. It will then "run" to ON2 and OFF2 times in turn, pausing at each before moving to the next day and identifying the ON and OFF times in the same way.

The LP711 will continue identifying the ON and OFF times in this way for each day in sequence until you press the SET button when it returns to the normal operating mode.