

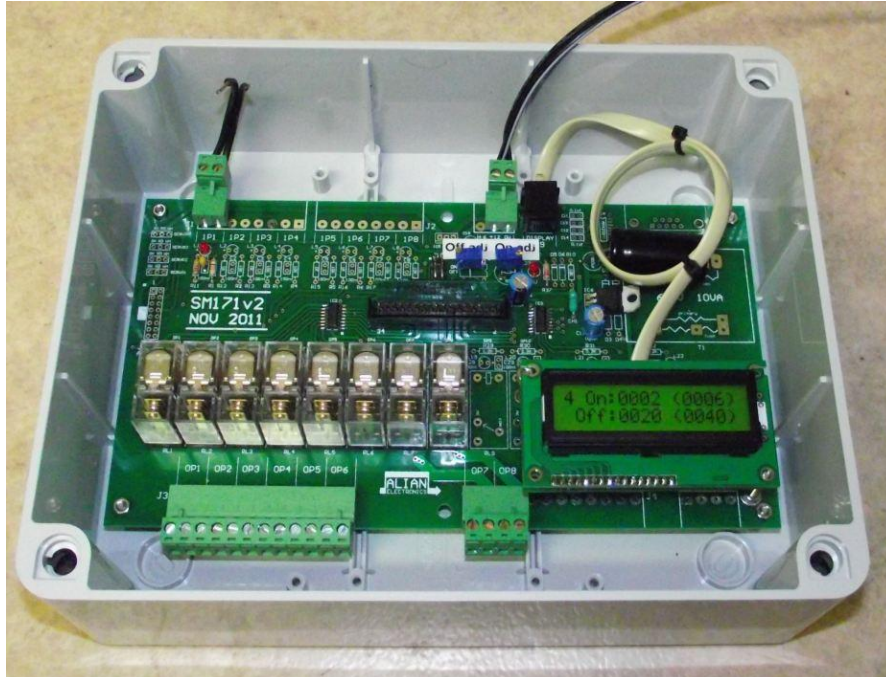


SM171 8 Relay Sequence Controller INFORMATION BRIEF

Release 1, October 2013

Manufactured in Australia by Alian Electronics Pty. Ltd.
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GENERAL DESCRIPTION

This configuration of the SM171 module features 8 relay outputs and one override input. There are two adjustable time delays that affect relay operation. The OFF time adjustment affects the interval between relay operations. The ON time adjustment affects the duration of each relay operation. Only one relay at a time will operate during normal operation. After the 8th relay has operated the unit will cycle to the first relay.

LED indicators show the activity of all inputs and outputs.

Each relay has a normally-open contact that terminates on the screw terminal block (OP1-OP8) There is full isolation between each contact. Relays are rated at 240V, 10A. All green screw-terminal blocks may be unplugged from the pcb.

The display shows timing activity. The figures in brackets represent the adjustment settings (in seconds) as set by the two trimmer resistors. ON time is adjustable (top right) in one-second intervals from one to 255 seconds (4¼ minutes) The OFF time is adjustable (bottom right) in 10 second intervals from 10 seconds to 2550 seconds (42½ minutes)

Looping the IP1 terminals together will force all 8 relays ON. When this input is released, the timing will re-commence from the first relay

Important Note. While the trimmer resistors may be adjusted at any time to new time delays, the values will not be processed by the counter program until after the Input terminals have been briefly closed. This action 'Resets' the timer.

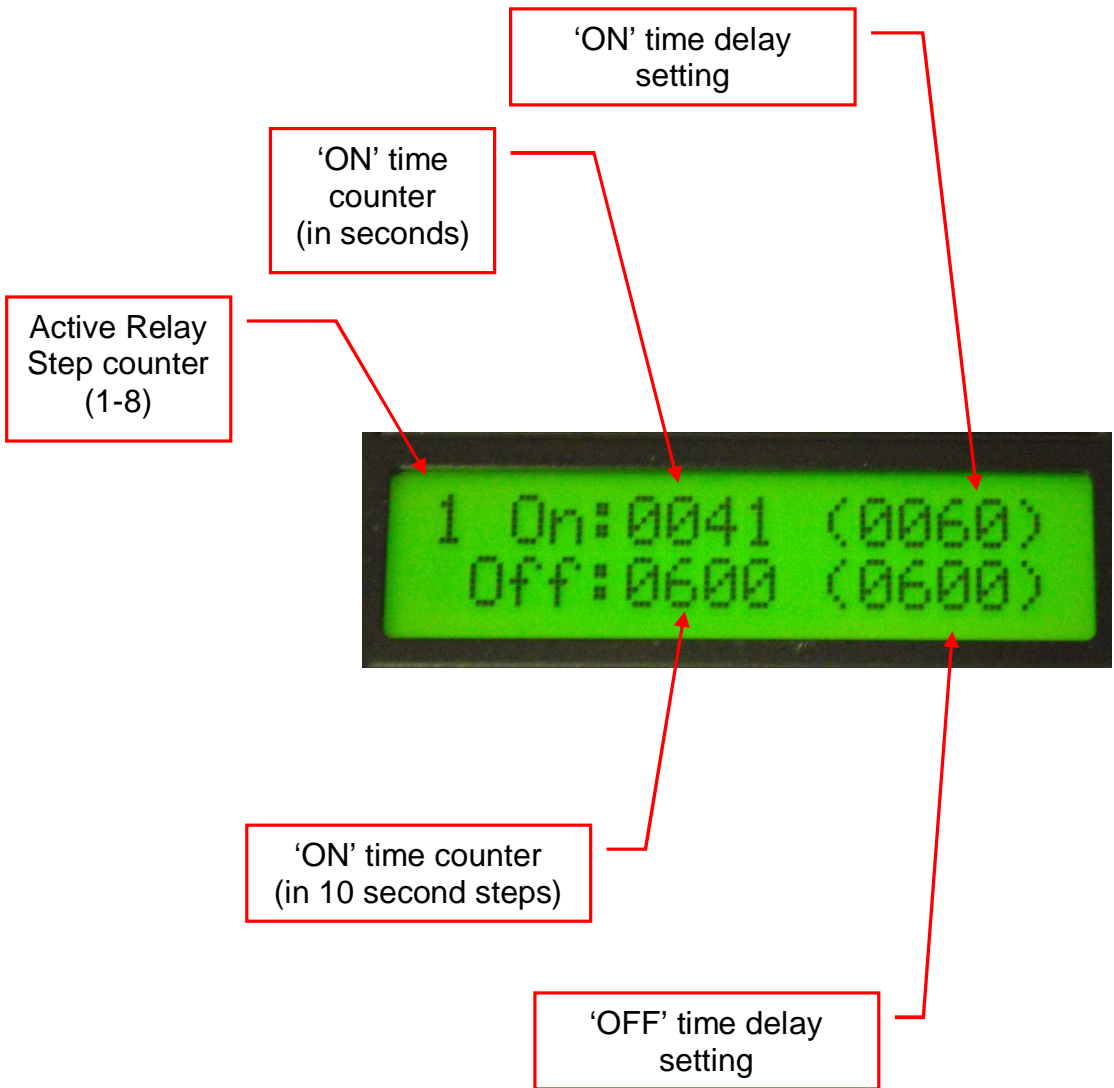
If power is interrupted during a normal timing cycle, the unit will remember its count and continue from that point when power is restored. The top-left digit on the display is the step counter and shows which relay circuit is presently being affected by the timer.

The unit is powered by 12V D.C. as applied to the 2-way screw terminal block at the rear.

The Display

The top values represent ON times and the bottom values represent OFF times. Note that the OFF times work in 10-second blocks. No seconds values will change. When the timer value on one line matches its corresponding preset value, the count will freeze and the opposite line will be performing the active count.

The screen is mildly backlit so that it may be read under low light levels



The enclosure is water resistant and rated to IP65. Note, where the unit is to be housed outdoors, it is recommended to have it in permanent shade, as clear-lid enclosures can reach very high temperatures in the summer when exposed to direct sunlight for some time.
