



# Electronic Automation Pvt. Ltd.

## OPERATING INSTRUCTIONS

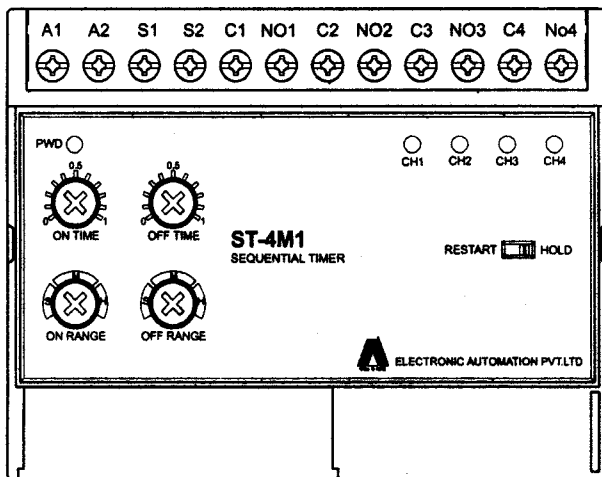
Model : ST-4M1

OPI No.: OPI/069

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### Front Panel Layout:



### Terminal details

A1 & A2 : Power  
S1 & S2 : External start  
(Potential Free – permanent short)  
C1 – C4 : Common } Relay Output  
NO1 – NO4 : Normally Open }  
Contact Rating : 5A @ 250V AC / 28V DC resistive

ST-4M1 model is microcontroller based-sequential timers with 4 channel outputs. The time range for ON and OFF can be selected from 0.1 Sec to 1 Hrs.

Model	Time range	Source voltage	No. of outputs
ST- 4M1	0.1Sec to 1 Hrs.	240V AC	4 Relay output

### Special Features:

#### **HOLD & RESTART Facility:**

**HOLD:** When the slide switch on the front panel is kept in the HOLD position, the timing data is retained in case of power failure. Upon resumption of power the timing continues from the point where it had stopped.

**RESTART:** When the slide switch is kept in the restart position, the timer resets in case of power failure and starts from beginning upon power resumption.

**ON/OFF Time:** Two different pots are provided for ON and OFF time setting. ON time and OFF time is common for all the four channels with LED Indication.

**RANGE:** Two different pots are provided for ON and OFF time range selection.

#### **Function:**

ST-4M1 is a four channel sequential timer. ON & OFF time is set through two different analog pots. On application of power & potential free closure of S1 & S2 (Permanent), channel 1 ON time starts. After completion of ON time, OFF time starts & then next channel ON time takes over. This sequence is continues till the OFF time of channel 4. After the OFF time of Channel 4, ON time of Channell starts and this cycle keeps on repeating.

The timing in progress shall be indicated by the particular channel LED & ON/OFF time LED.

**START SIGNAL :** Terminal S1 & S2 is provided for start signal. A permanent potential free shorting is required to run the timer. If the start signal is removed the timer shall be **paused** and on resumption of start signal depending in the HOLD / RESTART the timer shall continue. If shorting is continuous the timer will run in **cyclic mode**.