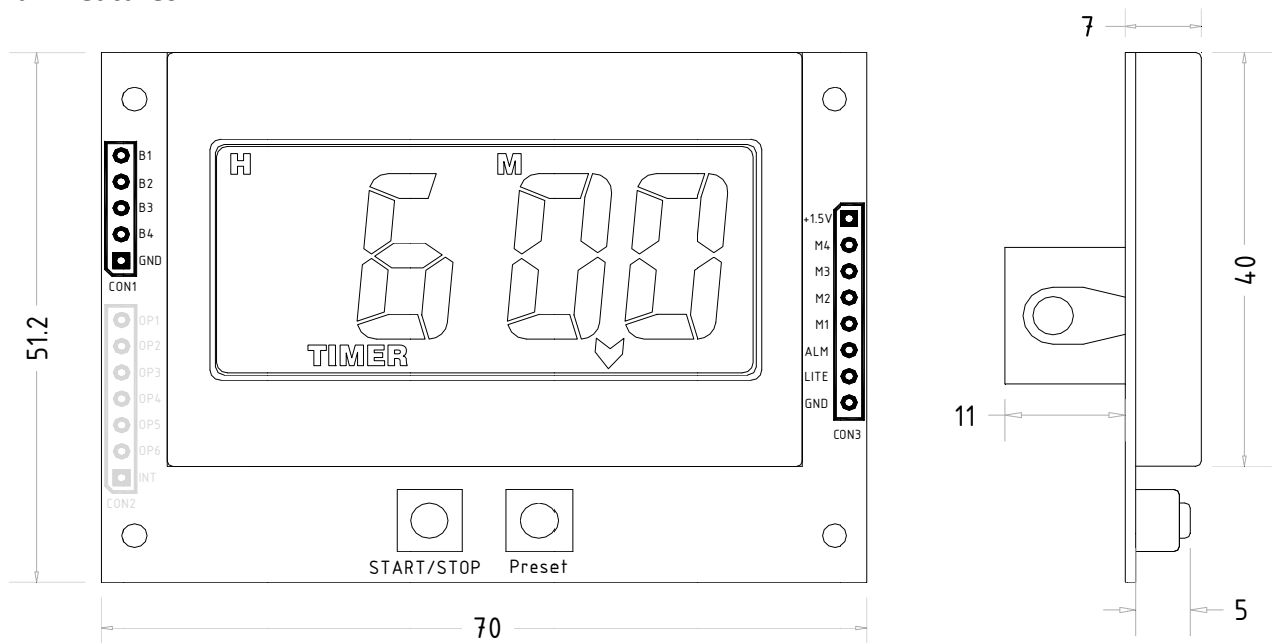# 6 Hours' Preset Countdown Timer Module with Output and Control Poles
Model No.: 50T-A0M-6H

Descriptions

1.50 VDC operated 4 digits, with 16 mm digit height, 6 hours' preset time counter. This module includes two buttons, one for start and stop the counting, the other for setting back to 6 hours. Various output and control poles are designed to provide user comprehensive applications, such as power on/off control of electrical device, security device control, automatically alarm system activation. Many kinds of preset values are available. Please refer to the last paragraph for Versions List. UM4 battery mounted on the rear side of module.

Main Features

- Preset Value: 6 hours
- Resolution: dynamic, 1 second after counting under 1 hour
- 2 keys: Start/Stop, and Set Back
- Depending upon the counting status, the display dynamically changed to an appropriate format
- Power: 1.5 VDC, UM4 battery holder mounted on rear side normally
- 1 minute alarm normally. However, PSEA (Power Saving Endless Alert) endless alert is available upon request
- Various output poles for special application are available upon request

Specifications

- Physical Size
  PCB Size: 70 x 51.2 mm
  Plastic Frame: 58 x 40 mm
  Thickness: 7 mm (battery holder not included)
- LCD Display
  Screen Size: 49.3 x 22.3 mm
  Number of Digit: 4 digits

Digit Height: about 16.00 mm
- − Button
  2 pcs of tact s/w, 5 mm height; externally connection supported
- − Power Source
  +1.5 VDC, use one piece of UM4 (AAA), battery holder mounted; externally input is possible
- − Technical Data
  Operating Voltage: +1.20 ~ + 1.70 volts
  Typical Current Drain: 3µA in normal condition; 400 µA at alarm mode
  Operation Temperature: -10 ~ +50 °C
  Storage Temperature: -20 ~ +60 °C

Applications
Aural alarm: 4 K Hz for 1 minute, PSA endless alert, beeps 6 times, then waits for 10 seconds and repeat
Output & Control Poles (at CON1 & CON3):
   B1 Pole: After counting to zero, provides 2.5 sec "OFF", 0.5 sec "ON" for 6 times, then wait for 10 sec
       and repeat again. Never stop unless "Stop" key is depressed.
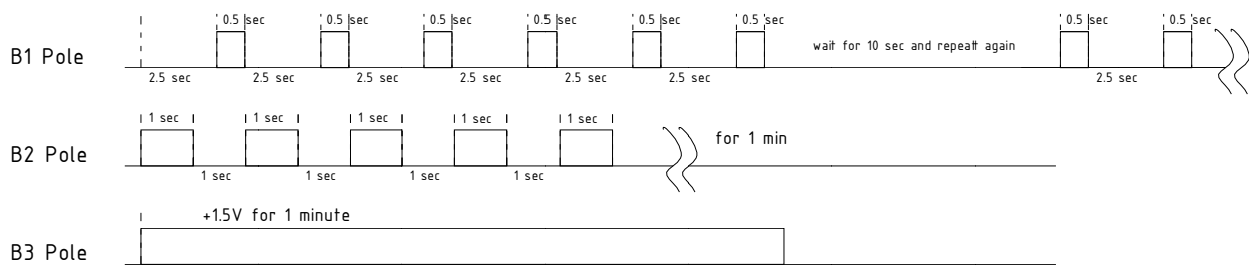   B2 Pole: After counting to zero, provides 1 sec "ON", 1 sec "OFF" for 1 minute.
   B3 Pole: After counting to zero, provides level high (1.5 VDC) for 1 minute
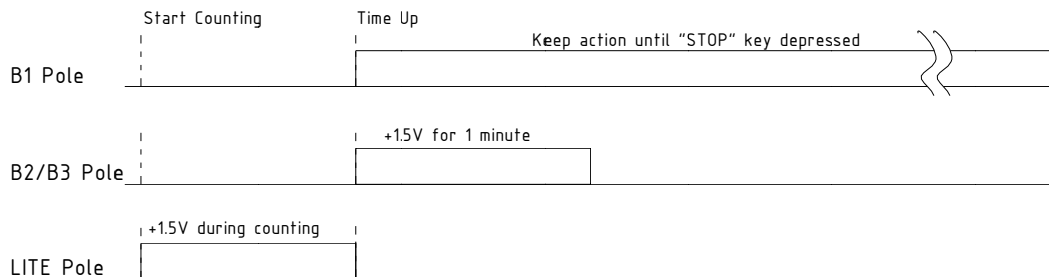   B4 Pole: Power "ON" auto start counting (application details upon request)
   LITE Pole: Deliver level high (1.5 VDC) signal during counting
   ALM Pole: Aural alarm output, 4K Hz for 1 minute, or PSA endless alert signal

a) Wave Form of each Output Pole at Timer Countdown to zero:

b) Action Chart of each pole :

Pin Connection for Keys at CON3:
   M1: connect to 1.5 VDC to "Start" or "Stop" counting
   M2: at stop mode, connect to 1.5 VDC to erase the current display reading to the pre-set value, 6 hours
   M3: same as M2
   M4: at stop mode, connect to 1.5 VDC to reset the current reading to zero

Additional Features Available upon Request

- Count up after countdown to zero

- Power On start counting

- Power Saving Alert, i.e., PSA or so called endless alert

- Various signal output and control leads for different application (please refer to the previous paragraph)

Versions Table

Model No.	Preset Interval	Resolution
50T-A0M-5000H	5,000 hours	dynamic
50T-A0M-2500H	2,500 hours	dynamic
50T-A0M-1000H	1,000 hours	dynamic
50T-A0M-500H	500 hours	dynamic
50T-A0M-300H	300 hours	dynamic
50T-A0M-200H	200 hours	dynamic
50T-A0M-100H	100 hours	dynamic
50T-A0M-10H	10 hours	dynamic
50T-A0M-6H	6 hours	dynamic
50T-A0M-2H	2 hours	dynamic
50T-A0M-60M	60 minutes	1 sec
50T-A0M-30M	30 minutes	1 sec
50T-A0M-20M	20 minutes	1 sec
50T-A0M-10M	10 minutes	1 sec
50T-A0M-5M	5 minutes	1 sec
50T-A0M-3M	3 minutes	1 sec
50T-A0M-2M	2 minutes	1 sec
50T-A0M-1M	1 minute	1 sec