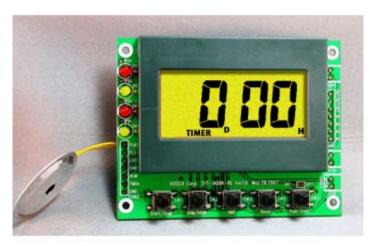
MODULE SPECIFICATION

99 Days 23 Hours Countdown/Up Timer Module with LED Back-Light Model No.: 51T-A0H-DH Series

Descriptions

3.3 VDC operated 4 digits, 99 days 23 hours maximum capacity countdown and up timer; LED back-light, available in amber, yellow, green, and white color. This is a full function test kit. 5 keys; start/stop, day, hour, reset, and push-start. Various kinds of output and control poles are designed to provide user comprehensive applications. Battery holder for 2 x UM4 is mounted on the rear side.



Main Features

- Maximum Countdown Capacity: 99 days 23 hours
- Maximum Count Up Capacity: 9999 days
- Resolution: 1 second after counting under 1 hour
- Minimum setting interval: 1 hour
- 5 keys: Start/Stop, Day, Hour, Reset, and Push-On (release-off)
- Automatically memory resets the display to the last set time
- Depending upon the counting status, the display automatically changed to an appropriate format
- Power: 3.3 VDC, external power; 2 x UM4 battery holder mounted on rear side for test purpose
- PSEA (Power Saving Endless Alert) alert
- Various output poles with LED indicator

Specifications

♦ Physical Size:

PCB Size: 77 x 60 mm Plastic Frame: 58 x 40 mm

Thickness: 10 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: 5 tact s/w, 5 mm height; externally connection is possible
- Power Source: +3.3VDC, external power; 2 x UM4(AAA) battery holder mounted;
- ♦ Alert Methods:

Visual - repeat full LCD blinking

Audible – PSEA (Power Saving Endless Alert), beep six times, then wait for 10 seconds and repeat, never stop unless the "start/stop" key depressed

♦ Technical Data:

Operating Voltage: +1.80 ~ + 3.80 volts

Typical Current Drain: 20 μA in normal condition; 56 mA or higher when LED B/L engaged

Operation Temperature: -10 ~ +50 °C Storage Temperature: -20 ~ +60 °C

Output Options: please refer next paragraph

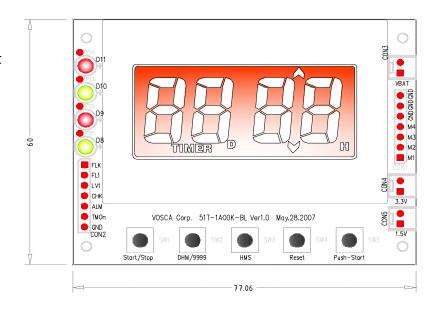
Connectors and Applications

A. Power Connectors CON3/CON4 - 3.3VDC input CON5 – 1.5VDC, normally not connected

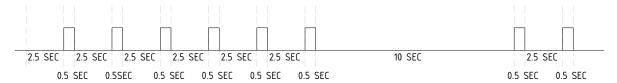
B. Keys (at CON1) M1 to 1.5V - Start/Stop/Recall M2 to 1.5V – Day adjust M3 to 1.5V - hour adjust

M4 to 1.5V - Reading reset

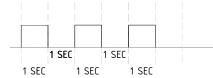
C. Output Poles (at CON2):



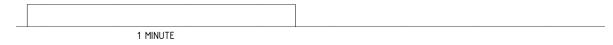
FLK Output (LED D11): When time up, blinking 6 times, then wait for 10 seconds and repeat again continuously until STOP key depressed.



FL1 Output (LED D10): Turn ON every 2 seconds for one minute when time up.



LV1 Output (LED D9): Turn ON for one minute when time up.



CHK: Invalid

ALM Output: Audio alert when time up, same as FLK output, but with 4K Hrz.

TMOn Output (LED D8): Turn ON when timer engaged.

Represent of Suffix Codes for Additional Features

	Description	Suffix Code	Represent of Feature	Remarks	
The 1 st Code	counting method	D	countdown only	upon request	
		U	countdown then count up	default	
The 2 nd Code	alert method	М	1 minute alarm plus full LCD endless linking	upon request	
		Р	PSEA, beep 6 times then wait for 10 seconds and repeat, never stop unless "stop" button depressed, plus full LCD endless blinking	upon request	
		N no alarm, plus full LCD endless blinking		upon request	
		А	Endless alarm unless "Stop" key is depressed	default	
The 3 rd Code	output	N	no output pole	default	
		0	all output poles activated	upon request	
		L	"LITE" pole activated	upon request	
The 4 th Code	The 4 th Code Color of LED Back-light		amber		
		Y	yellow		
		G	green		
		W	white		
The 5 th Code	pace beeping	S	every 30 seconds beeping during counting	Upon request	

Examples:

51T-A0H-MS-DMN-A

means: <u>99 minutes 59 seconds capacity</u>; <u>countdown only</u>; <u>1 minute aural alert</u>; <u>no</u> output pole; amber color of LED back-light

51T-A0M-HH-UPL-Y-s

means: 9999 hours capacity; countdown and count up; PSEA alert, i.e., beep 6 times, then waiting for 10 seconds and repeat again, never stop beep unless "stop"

<u>depressed</u>; <u>"LITE" output pole only; yellow color of LED back-light; with 30 seconds</u> pace beeping during counting

List of Popular Counting Capacity with Recommend Options

Model No.	Maximum Capacity	Minimum Setting Interval	Counting Method	Alert Method	Output	Back-lite Color
51T-A0H-MS- DMO-A	99 min 59 sec	1 sec	down	for 1 min	all activated	amber
51T-A0H-HM- UPO-Y	99 hr 59 min	1 min	down/up	PSEA	all activated	yellow
51T-A0H-DH- UPO-W	99 days 23 hr	1 hour	down/up	PSEA	all activated	white
51T-A0M-MM- UAN-G	9999 min	1 minute	down/up	endless	no	green
51T-A0M-HH- UAO-A	9999 hr	1 hour	down/up	endless	all activated	amber
51T-A0M-DD- UPL-Y	9999 days	1 day	down/up	PSEA	LITE only	yellow