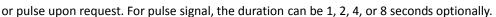
MODULE SPECIFICATION

Simplified Multi-Alarm Clock Module with backlight

Model No.: 51C-A0Jx-(spx) or 51E-A0Jx-(spx) Series

Product Descriptions:

This is a simplified 4 daily alarms clock module with blue (or white, green, amber) LED backlight. The LED backlight is always turns on. It has 3 keys, available in 12 and 24 hour versions. External powered with 3.3VDC. Normally the alarm time is one minutes, and configured in 4 individual output poles for each alarm normally. However, single pole for 4 alarms output is possible too. The output signal can be a level high



PSA (power saving alert) alert, (see Spec. E. 5.), is available too upon request.



A. Physical Size:

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

Thickness: 10 mm (battery not included)

B. LCD Display

1. Screen Size: 49.3 x 22.3 mm 2. Number of Digit: 4 digits 3. Digit Height: about 16.00 mm

C. Button: tact s/w (5mm in height), mode, set, and adjust

D. Main Power Source: +3.3 VDC, external connection

E. Technical Data:

1. Operating Voltage: +3.00 ~ + 3.50 volts

2. Typical Current Drain: 60 mA normally, 120 mA with alarm

3. Operation Temperature: -10 ~ +50 °C 4. Storage Temperature: -20 ~ +60 °C

5. Output Options

- 4K Hzs aural alarm for 1 minute

- Power Saving Alert circuit (called PSA circuit), beep triple times for every minute until "Mode" key depressed (upon request)

- Selection of level or pulse output

- Output Amplitude: 1.5VDC

- For pulse output, 4 types of pulse interval, 1 sec, 2 sec, 4 sec, or 8 sec

- Option of single pole or individual pole for each alarm. For PSA circuit individual pole only.

Features:

a. Regular clock: hour, and minute

b. Multi-daily alarm, choose 1, 2, 3, or 4 channels

c. Both 24-hour and 12-hour version available

d. Blue (or other color) LED backlight; available in color of amber, white, green





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- e. Backlight always turn on
- f. Key tone

I/O Poles:

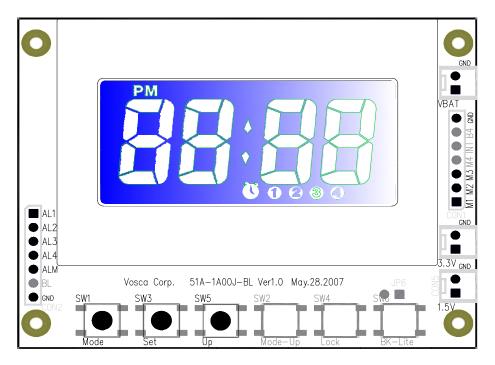
A. CON1

- 1. M1 connected to 1.5VDC "Mode" key
- 2. M2 connected to 1.5VDC "Set" key
- 3. M3 connected to 1.5VDC "Up" or "Adjust" key

B. CON2

- a. Individual alarm Output Poles
 - 1. AL1 alarm #1 output, level high (1.5VDC) for one minute (or 3 seconds for PSA alert)
 - 2. AL2 alarm#2 output, level high (1.5VDC) for one minute (or 3 seconds for PSA alert)
 - 3. AL3 alarm#3 output, level high (1.5VDC) for one minute (or 3 seconds for PSA alert)
 - 4. AL4 alarm#4 output, level high (1.5VDC) for one minute (or 3 seconds for PSA alert)
 - 5. ALM open collector audio alarm output pole, 4K Hz for one minute (or PSA alert)
- b. Single Output Poles
 - 1. AL1 pulse interval 1 second for all alarms
 - 2. AL2 pulse interval 2 seconds for all alarms
 - 3. AL3 pulse interval 4 seconds for all alarms
 - 4. AL4 pulse interval 8 seconds for all alarms
 - 5. ALM open collector audio alarm output pole, 4K Hz for one minute

51E-A0J*- spx LCD Alarm Clock Module with Backlight



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