

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 or pulse upon request. For pulse signal, the duration can be 1, 2, 4, or 8 seconds optionally.



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

Specification:

- 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

- 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

