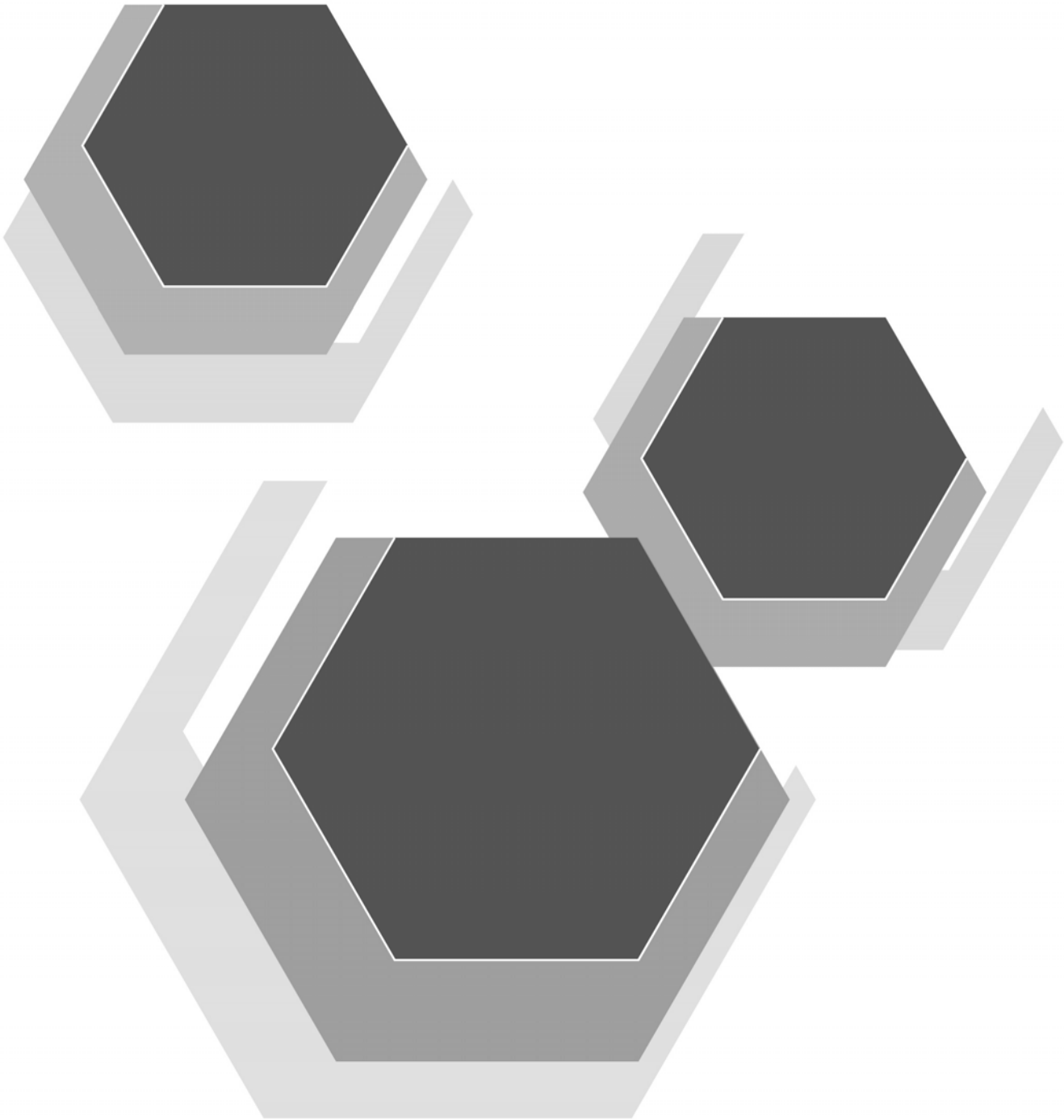
SB.04 Four Way Sounder Card

Instruction Manual

Man-1084 Issue 03 June 2013



1. General

The SB.04 Boards enable extra sounder circuits to be controlled by K3000 series Control panels. Each SB.04 enables four sounder circuits to be controlled and supervised for open or short circuit faults.

On board switches allow various combinations to sounder control to be easily set.

These include straight -forward zoned alarm, commom alarm and zoned two-stage alarm. Each circuit is individually fused and failure of any fuse will produce a fault warning.

All circuits may be isolated for testing purposes and a fault warning is generated during the isolated condition.

2. Isolate Function

Operation of the “isol” position on the 6-way dil switch will prevent any of the sounder outputs from operating under any circumstances. This can be used for testing during commissioning or to prevent unwanted evacuations during building works Etc.

The isol.led on the SB.04 board will remain illuminated whilst the isol switch is set as will the system fault indicator on the front panel.

3. S1-S4 Switches

The board as supplied has switches S1-S4 in the off position.

In this configuration sounder outputs will only activate upon operation of their associated zone. This is the standard “zoned alarm” system.

Operation of one or more of the S1-S4 switches will cause the selected sounder outputs to activate upon operation of any zone on the control panel. Outputs with this configuration are selected to be “common alarm”.

Operation of the evacuate key-switch on the front of the panel will activate all sounder outputs regardless of the position of switches S1-S4.

4. INT Switch

The Int. (intermittent) switch when on, will convert any outputs which are not activated by their associated zone or selected as common alarm by switches S1-S4 to intermittent or pulsing outputs. This is “zoned two stage” alarm, where sounders are continuous in the zone activated and pulsing to alert all other zones.

Operation of the evacuate key-switch on the front panel will activate all sounder outputs regardless of the position of the Int. switch.

5. Installation

The SB.04 board is supplied with four mounting pillars and connecting socket.
It may be mounted onto the CON.05, K4ZM or K8ZM PCB’s by carefully aligning the connecting socket with the pin header on the host board and pushing the pillars firmly into the locating holes.

Important:

Boards should not be plugged in or unplugged unless both mains and battery power have been removed. Failure to do this is likely to result in damage to both boards.

The connecting socket and fixing pillar locations should be carefully checked before power is re-applied to the panel.

6. Power Requirements

Each sounder output has a 500-mA fuse to protect the output. However, consideration must be given to the control panels’ power supply when fitting extra sounder circuits.

Extra terminals are provided to connect additional 24-volt power to each SB.04 board if necessary. No more than two SB.04 boards should be fitted without wiring to these terminals. This can be from the control panels’ supply, if the sounder load is within the capability of the supply, or to an additional power supply if the sounder load is beyond the capability of the panels’ power supply.

The power supply inputs to the SB.04 boards are diode protected thus preventing any “commoning” of power supplies.

See drawing over page for connection details.

7. SB.04 Additional Power Wiring

Fit additional wiring as shown if more than two SB.04 boards are fitted.

Ensure that total sounder load is not more than 75% of control panel's power supply rating.

If so the SB.04 boards should be fed from an additional power supply.