INSTALLATION AND OPERATING INSTRUCTIONS.
LOGIC-4X SERIES SECURITY CONTROL PANEL.

The LOGIC-4X series of panels are designed to be extremely stable under any conditions to provide years of trouble free opperation.

The design objectives were:

a Ease of opperation
b Reliability
c Flexability

FRONT PANEL

1-MAINS- When on indicates that the panel is opperating on the mains supply.
2-BATTERY- When on indicates that the battery needs attention.
3-EXIT- When on indicates that the exit timer is running.
4-ISOLATE- When on indicates that a section is isolated.
5-ACCESS- When on indicates that the panel is in ACCESS mode.
6-SECURE- When on indicates that the panel is in SECURE mode.
7-SECTION ISOLATE SWITCHES- Are used to isolate or disable a section.
8-SECTION LIGHTS- When on indicates that the section is unsealed.
9-KEYSWITCH- Is used to set the system to ACCESS or SECURE mode.

MOUNTING

To attatch the panel to the mounting surface:
1. Remove top or bottom knockout (if required)
2. Position panel in desired location and mark top right keyway.
3. Drill and plug hole and insert mounting screw.
4. Remount panel and mark the position of the other three holes, using a spirit level to ensure that the panel is level.
5. Drill and plug remaining holes.
6. Insert top left screw and mount panel.
7. Insert two remaining screws and tighten all screws.

N.B. - Use suitable plugs or toggle bolts for the mounting surface.
 - When drilling walls avoid 240V mains wiring.
 - When pulling cables through the wall allow enough cable to reach the terminating point when the door is fully open.

PROTECTION FUSES.

To protect the control panel from damage by short circuits and overloading, two easy change fuses are located on the bottom right hand corner of the mother board.

Fuse 2 (F2) Protects - Strobe output
 - External siren output

Fuse 3 (F3) Protects - Auxiliary 12V DC
 - Internal siren

As an added protection against damage, each section input is protected by a transient suppression device. The 18V AC input circuitry is protected by a varistor and the 12V DC auxiliary supply is also protected by a transient suppression device.

N.B. The dialler output voltage is unfused, to allow the dialler to continue reporting if the fuses have blown.

OPTION SWITCH SETTINGS (Main Board)

There are several options for each zone that the installer can select to tailor a system to a clients specific requirements. these option switches are located on the bottom right-hand side of the mother board.
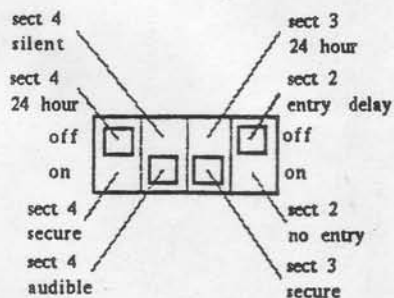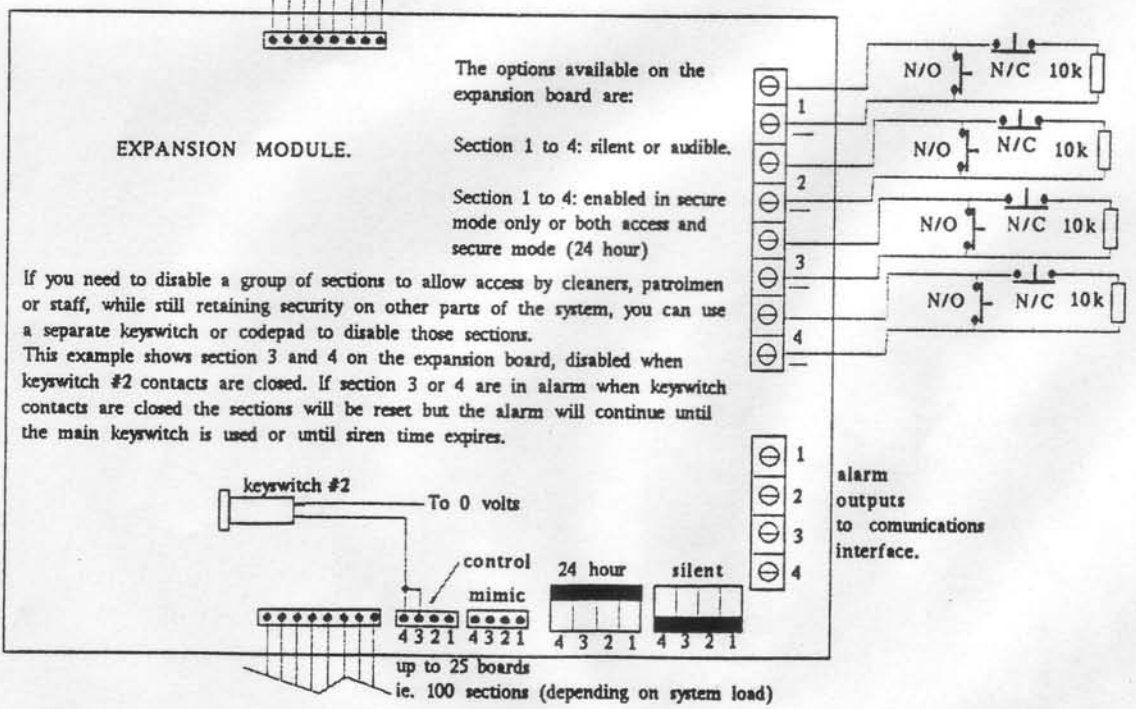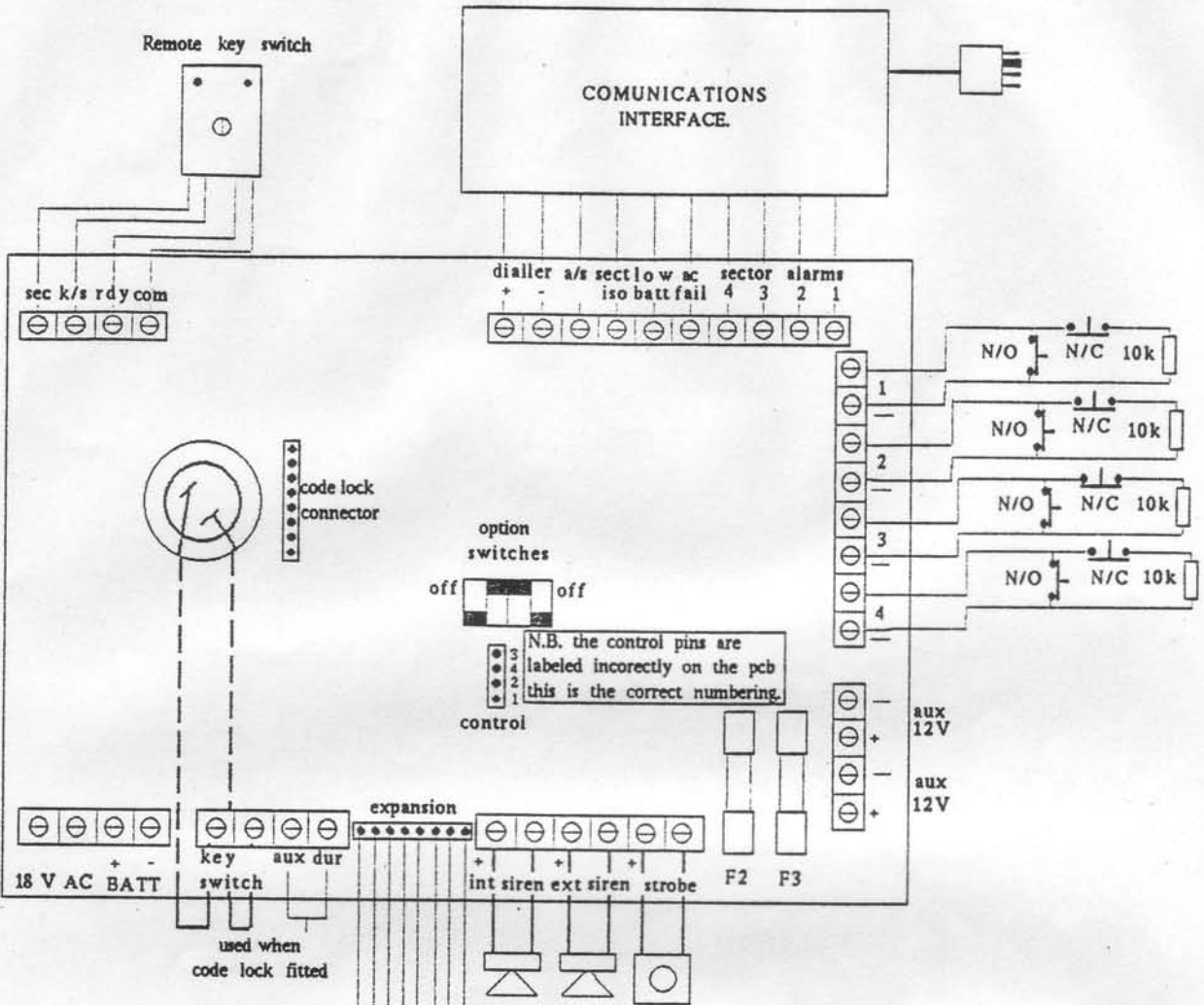

The example shown has the options set as follows:

Section 2 - Has entry delay.
Section 3 - Is armed in the "SECURE" MODE ONLY.
Section 4 - Has the siren enabled and is armed in both "ACCESS and "SECURE"

NOTE: Section 1 always has ENTRY and EXIT delay.
   2 always has exit delay.

Remote key switch

COMUNICATIONS
INTERFACE.

sec k/s rdy com

dialler a/s sect low ac sector alarms
+ - iso batt fail 4 3 2 1

N/O N/C 10k
1
—
N/O N/C 10k
2
—
N/O N/C 10k
3
—
N/O N/C 10k
4
—

code lock
connector

option
switches

off   off

3
4
2
1

N.B. the control pins are
labeled incorrectly on the pcb
this is the correct numbering.

control

— aux
+ 12V
— aux
+ 12V

expansion

18 V AC BATT   key   aux dur   int siren ext siren strobe   F2   F3
              switch

used when
code lock fitted

EXPANSION MODULE.

The options available on the
expansion board are:

Section 1 to 4: silent or audible.

Section 1 to 4: enabled in secure
mode only or both access and
secure mode (24 hour)

N/O N/C 10k
1
—
N/O N/C 10k
2
—
N/O N/C 10k
3
—
N/O N/C 10k
4
—

If you need to disable a group of sections to allow access by cleaners, patrolmen
or staff, while still retaining security on other parts of the system, you can use
a separate keyswitch or codepad to disable those sections.
This example shows section 3 and 4 on the expansion board, disabled when
keyswitch #2 contacts are closed. If section 3 or 4 are in alarm when keyswitch
contacts are closed the sections will be reset but the alarm will continue until
the main keyswitch is used or until siren time expires.

keyswitch #2   To 0 volts

                control
                mimic
4 3 2 1   4 3 2 1

24 hour   silent
4 3 2 1   4 3 2 1

1
2   alarm
3   outputs
4   to comunications
     interface.

up to 25 boards
ie. 100 sections (depending on system load)

2

TECHNICIAN ADJUSTMENTS

Once the instalation of the system is complete and options selected, there are a few adjustments that the installer needs to make to the control pannel.

These adjustments are:

a - Voltage adjust, this is factory set at 13.75 V and should not need to be adjusted.

a - Siren time (2 sces to 12 minutes)

b - Exit delay (1 sec to 120 sec approx) for sections 1 and 2

c - Entry delay (1 sec to 120 secs approx) for section 1 and optionally 2.

The potentiometers for adjusting these items are located on the bottom left-hand corner of the mother board.
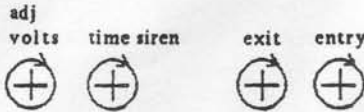
N.B. Due to component tolerances, times may vary slightly. However, once they are set, they should remain constant.

CONNECTION TO MONITORING EQUIPMENT

There are a number of open collector outputs (rated at 150 mA) that provide a means of connection to most popular makes of dialler or direct line interface. The terminals for these open collector outputs are located on the top right-hand edge of the mother board. These outputs are low when in alarm.

The diagrams following detail the connection to other equipment.

Pull up resistors may be required depending on dialler used.

NOTE Access/Secure (A/S) output is low when in access mode.

> N.B. Low battery is detected and sent by the LOGIC-COM S8/1 automatically.