Auxiliary Output Wiring

- Max current on any individual Auxiliary must be less than 100mA.

- Total current drawn by Auxiliaries + LAN + Detectors must be less than the total
  current rating of the Expander Moduled that the board is connected to.

- When an external power supply is used to power auxiliary devices, a good common
  Negative connection MUST exist between the power supply and the module.

- Clamp diode should be fitted across inductive loads. Cathode (bar) to +ve.

Commissioning

NOTE: Control Module firmware V2 or later. The Universal Expander Module <u>must</u> be
configured as a <u>"B" type</u> (Big) Expander to support additional Auxiliaries 17 to 32
provided by the 24 Auxiliary Expansion board.
(Expander Modules configured as an "E" type only support the first 16 Auxiliaries. i.e.
The 8 Auxiliaries on the Universal Expander Module plus the first 8 Auxiliaries on the
24 Auxiliary Expander board)

The Universal Expander "type" is selected with DIPSwitch 1 on SW1 as follows:
Off = "**B**" type Expander. (16 to 32 Zones)   On = "**E**" type Expander. (16 Zones only)

If an existing Universal Expander has to be changed from an "E" type to a "B" type to
support the 24 Auxiliary Expansion board, Auxiliaries 1 to 8 on that Universal Expander
(if used) will have to be re-programmed as "B" type Expander Auxiliaries.

1. When wiring is complete and checked to be OK, connect power to the Universal
   Expander Module.

2. The Auxiliaries can be tested via the "Test Auxiliaries" option. <MENU>, 4, 2.

3. Program the Auxiliary functions as required.

Designed & manufactured in Australia.

Part No: 633007

MODEL 3000 / ACCESS 4000

24 Auxiliary Expansion Board

P/N: 993007 / 995007

INSTALLATION NOTES

Introduction

The 24 Auxiliary Expansion board connects to a Universal Expander Module to provide
an additional 24 Auxiliary Outputs along with extra power supply connections that may
be required to power devices controlled by the outputs.

IMPORTANT NOTES:
1.   In Model 3000 and Access 4000 Systems, Version 2 Control Module firmware or
later, the Universal Expander must be configured as a "B" type (Big) Expander to
support the full 32 Auxiliary outputs. *(See page 4 for details)*

2.   Australia and New Zealand only. Older Zone Expander Modules (NOT Universal
Expander Modules) require V11.0 firmware or later to support the 24 Auxiliary Expan-
sion board. These Expanders are identified as Part No. 993005 -PCB Part No. 933005.

Specifications

Power Supply Input:	11V to 14V DC via host Universal Expander.
Current Consumption:	40mA. (Not including auxiliary power)
Max. switchable current per Auxiliary:	100mA.
Physical dimensions:	Length: 180mm Width: 68mm
	Depth: 15mm
Installation environment:	0° to 40° Celsius
	15% to 85% Relative humidity (non-condensing)

Expander Module 24 Auxiliary Expansion Board Kit

- 24 Auxiliary Expansion board sub-assy.
- 4 x 8 way plug-on screw terminals
- 1 x 20 way interconnection cable.
- 4 x M3 screws.
- 4 x M3 insulating bushes.
- Installation notes. (This document)

Mounting the 24 Auxiliary Expansion Board

1) Remove the power and disconnect the battery from the Universal Expander Module.

2) Option A: Mount the 24 Auxiliary Expansion board in the Universal Expander Module enclosure using the standoffs provided. The board is secured onto the standoffs using the M3 screws provided. IMPORTANT: Fit the M3 insulating bushes to the mounting holes on the component side of the board before fitting the screws.
    Connection is made between Zone Expander J1 and the 24 Auxiliary Expansion Board using the ribbon cable supplied.

2) Option B: The 24 Auxiliary Expansion board may be mounted in an alternative enclosure using a longer ribbon cable. (Not supplied)
If a longer ribbon cable is used cabling distance must be less than 500mm. (0.5m)

24 Auxiliary Expansion board layout

Connects to
Expander Module J1
via cable supplied.

Universal Expander Module PCB

AUXILLIARY EXPANDER

IRZAE-3000

T5. Detector Power.
Power Supply output for
+12V Auxiliary Power.
Fuse protected via
Expander Module
Detector Fuse.

**T1 to T3.
Auxiliary Output
connections.
Auxiliaries 9 to 32.**