

Universal Elite LCD Terminal 3000/4000

995000U / 995000UWH

Universal Elite LCD Terminals are used in systems to perform programming and User operations, display alarm messages and review system activity.

Configuration options allow this model to be installed in Model 3000/Access 4000 systems and also in Model 1000/2000 systems.

(Note: Model 1000/2000 only available in Australia and New Zealand)

All Elite LCD Terminals provide a backlit keypad and LCD display for positive PIN & data entry and indicator LEDs to provide Area/system status information. The module number and other options are easily programmed from the keypad with plain english text prompts.

Installation is simplified with the provision of screw terminals for wiring. Flush or surface mount options, Tamper monitoring, Zone Inputs (Model 3000/4000 only) and Auxiliary outputs are also provided.

Elite LCD Terminal Parts List

- Elite LCD Terminal assembly.
- Alternative rear casing.
- Alternative hinged front cover.
- 4 x M2.5 Self tapping screws.
(2 for fixing front of case to rear, + 2 spare)
- Installation Manual and mounting template.
(This document)

Specifications

Power Supply Input:	11V to 14V DC		
Operational Current:	Normal: 20mA	Max: 45mA	
Auxiliary Output Current:	100mA max. Each.		
Physical dimensions:	Height: 143mm,	Width: 89mm	Depth: 28mm
Installation environment:	0° - 40° C @15% to 85% Rel. humidity (non-condensing)		

Due to on-going product development this manual is subject to change without notice.

Installing the Terminal

- Choose an appropriate mounting location and ensure that the LCD display will be at, or slightly below eye level for all users.
The LCD display Contrast (View Angle) can be adjusted if required. *See page 5 or 7.*
- If Flush mounting, cut a rectangular hole in the wall, 72mm wide and 105mm high and snap the extension plunger off the tamper switch lever before positioning the rear of the case into the wall. *Refer to Installation template supplied on the back page.*
- The Flush mount or Surface mount rear casing can now be installed using three countersunk screws or bolts. Remember to insert the LAN cable and any other wiring through the cable entry cutout first. *Refer to Installation template supplied on the back page.*
- Set Links 3, 4 and 5 to the correct position for the system type. (To “3K” for Model 3000/4000 and to “2K” for Model 1000/2000 (Aust & NZ only). *See pages 4 and 6.*
- Connect the wiring into the Screw Terminal block TB1, and fit or remove the Termination link, LK1, as required. (Model 3000/4000 only)
Refer to “Connections & Link options”, “Zone Inputs and Auxiliaries” and “LAN wiring” on pages 2 to 7 for details.
- Position the two tabs at the top of the front casing into the retaining slots at the top of the rear casing, then secure the two halves using the M2.5 self tappers in the two holes at the bottom of the unit. (Normally concealed by the cover)
- Choose the appropriate front cover for this installation and fit onto the hinge pins at the bottom of the unit. (If not already fitted)
- When complete, commission the Module by following the steps detailed on page 5 (Model 3000/4000 systems) or page 7 (Model 1000/2000 systems).

CAUTION !

Take care not to damage PCB tracks or components during installation.

LAN Power Cabling.

<u>No. of LCD Terminals on Cable run:</u>	<u>Sep Power cable (or sep supply) req'd if over:</u>
1 LCD Terminal (e.g. 48mA)	200 metres from 13.8V power source.
2 LCD Terminals (e.g. ~100mA)	100 metres from 13.8V power source.
4 LCD Terminals (e.g. ~200mA)	50 metres from 13.8V power source.

Remember to allow for any extra current required by Auxiliary devices, Detectors, etc.

LAN Wiring

Model 3000 / ACCESS 4000

Connect the LAN using twisted pair communications cable.

Connect LAN A & B using one pair; +VE & GROUND with another pair.

LAN A & B MUST be on the SAME pair.

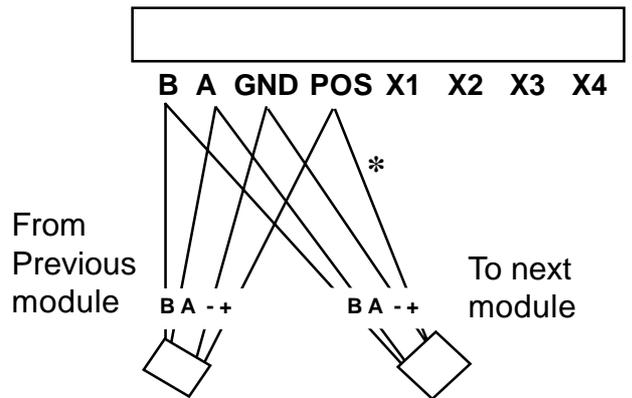
(Over longer distances, use heavy duty Fig. 8 for +VE & GND, or a separate power supply - See Note on Page 2)

Cabling distance should be no more than 1.5km from the Control Module or a LAN Isolator, "LAN 2 or 3" Port.

Links LK3, LK4 & LK5 must be set to the "3K" position. (To the "ir" logo side of the links)
See diagram on page 4.

LK1 (LAN Termination) is fitted if unit is one of the two furthest modules from the Control Module or a LAN Isolator. (See "Model 3000/4000 Installation manual" or "LAN Installation & Troubleshooting" for more details.)

See diagram on page 4.



* LAN POS not connected if Terminal powered from external Power supply.

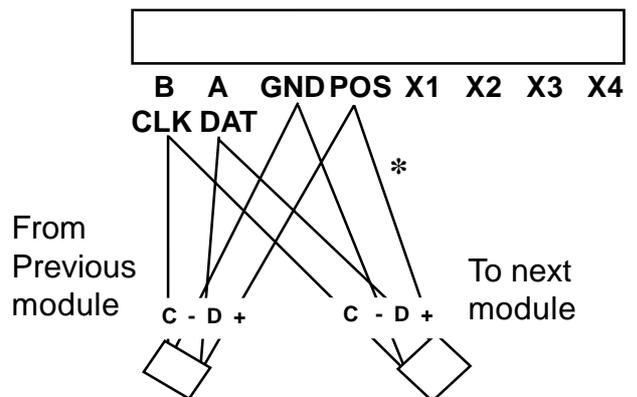
LAN Wiring

Model 1000 / 2000

The LAN is connected using twisted pair communications cable.

One pair is used for DATA & POS, and the other pair is used for CLOCK & NEG. Data and Clock must NOT be on the same pair.

(Over longer distances, use heavy duty Fig. 8 for GND & +VE, or a separate power supply - See Note on Page 2) Cabling distance should be no more than 500m from the Control Module.



* LAN POS not connected if Terminal powered from external Power supply.

Links LK3, LK4 & LK5 must be set to the "2K" position. (To the "RESET" link side)
See diagram on page 6.

LK1 (LAN Termination) must NOT be fitted.

Connections & Link Options.

Model 3000 / ACCESS 4000

LK1 (LAN Termination)

Fitted if unit is one of the two furthest modules on the LAN. (See "Model 3000/4000 Installation manual" or "LAN Installation & Troubleshooting" for more details.)

Note: If LAN Isolators are used, each isolated section of the LAN is treated as a separate LAN system when terminating modules.

LAN Connections.

See Pages 2 & 3 for details.

LK3/LK4/LK5.

LAN protocol selection.

Must all be set to the "3K" position for 3000/Access 4000 as shown. (To the "ir" logo side)

LK2. Reset.

Shorting this link while holding down the <HELP> key enables Configuration mode, follow procedure on page 5.

Zone Inputs

T??:Z01 Zone Input 1. Connect Door Reed if Door Forced/DOTL required. (No EOL required)

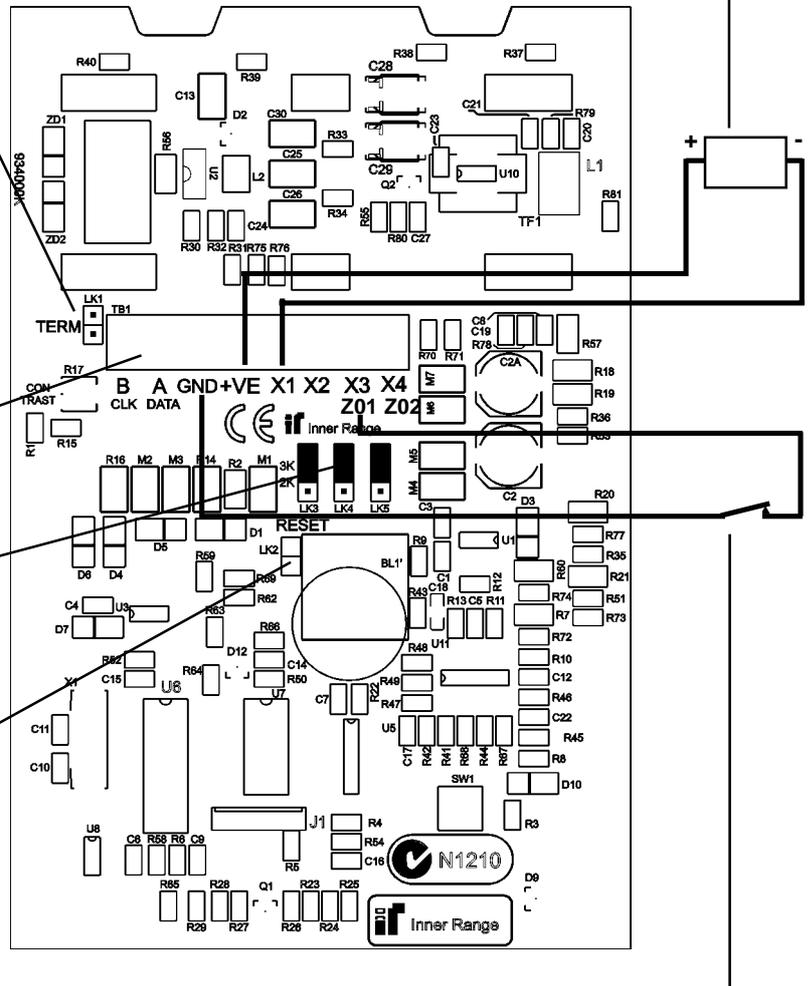
T??:Z02 Zone Input 2. Connect REX button if required. (No EOL required)

See Programmer's manual for details of LCD Terminal System Inputs.

NOTE: T?? = Terminal Number.

Auxiliary O/P Wiring.*

100mA max. e.g. 12V Relay



Zone Input Wiring.

e.g. Door Reed/REX button. (No EOL's)
Closed = Seal. Open = Alarm.

See "Zones" & "Auxiliaries" below.

Auxiliaries

T??:X01 Aux. 1.

T??:X02 Aux. 2. **or** LED 4. (See p5)

T??:X03 Aux. 3 unless used for Zone 1

T??:X04 Aux. 4 unless used for Zone 2

or Pulse Beeper option.

T??:X05 Aux. 5. Internal Beeper.

T??:X06 Aux. 6. LED 1.

T??:X07 Aux. 7. LED 2.

T??:X08 Aux. 8. LED 3.

Commissioning. Model 3000 / ACCESS 4000

When installation is complete, power the Terminal. The display may show a normal Diary, Area status, or Alarm message, etc. This means that the default Terminal number has been accepted. To change the Terminal no. & configure, "LED 4", "Contrast" and "Pulse Beeper" options, go to step 1.

Alternatively, one of the messages opposite may be displayed if:

- There is already an LCD Terminal with the same address number.
- The module number is too high for the memory size / configuration.

Display message:

Module Exists.

Module Too Big.
go to step 1.

1. Enable Terminal Configuration Mode.

Method 1: Short LK2 (RESET); push down and hold the <HELP> key; Wait 2 seconds; then remove short on LK2 and release the <HELP> key.

Method 2: Remover power; push down and hold the <HELP> key;
Re-apply power and release the <HELP> key.

2. Terminal Number.

Select an LCD Terminal number that isn't already used in the system, then set the module number by entering the required number on the keypad, followed by <OK> to save.

Display shows:
Module Number
Change No: 99

3. Contrast (View angle) Setting.

Use Up/Down Arrow keys to adjust for the contrast (View angle) required.

Contrast ^/V

4. LED 4 Control.

To control LED 4 via an auxiliary (T?:X02), Use Right Arrow key to select "Aux2", then press <OK>. Auxiliary control of LEDs 1 to 3 is already available. See table on page 4.

Led 4 >
off

5. Pulse Beep Option.

To enable pulsing beeper whenever Auxiliary 4 (T?:X04) is ON, Use Right Arrow key to select "Aux4", then press <OK>. *DO NOT wire to Zone 2/Aux 4 if this option selected.*

Pulse Beep >
off

Use the Left Arrow key at any time to scroll back through the options. Press the <END> key when finished.

Other Terminal options are set in "LCD Terminal Programming", <MENU>, 7, 2, 1.

Connections & Link Options. Model 1000 / 2000 Systems

Auxiliary O/P Wiring.*

100mA max per Auxiliary. e.g. 12V Relay

See "Auxiliaries" table on Page 7.

NOTE: AX3 and AX4 not used.

LK1 (LAN Termination)

Not used when configured for Model 1000/2000 systems.

Must not be fitted.

LAN Connections.

See Pages 2 & 3 and LAN wiring notes below for details.

LK3/LK4/LK5.

LAN protocol selection.

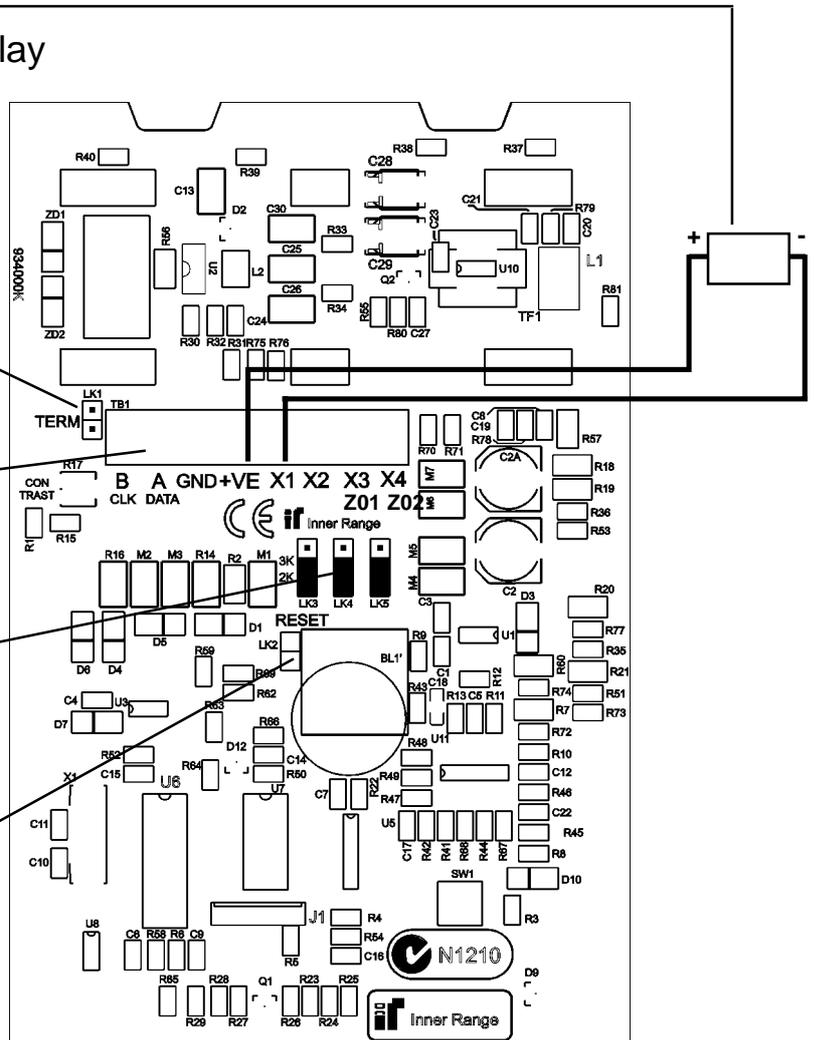
Must all be set to the "2K" position for 1000/2000 as shown.

(To the "RESET" link side)

LK2. Reset.

Shorting this link while holding down the <HELP> key enables Configuration mode, follow

procedure on page 7.



CAUTION !

Take care not to damage PCB tracks or components during installation.

LAN Wiring. Connect the LAN using twisted pair communications cable. Connect CLK & GND using one pair; DATA & POS with another pair. (Over longer distances, use heavy duty Fig. 8 for GND & +VE, or a separate power supply - See Note on Page 2) Cabling distance should be no more than 500m from the Control Module.

Commissioning. Model 1000 / 2000 Systems

1. When installation is complete & checked, power-up the module.
2. The display may show a normal Area status, or Alarm message, etc. This means that the default Terminal number (*Set to 1 at the factory*) has been accepted. To change the Terminal no. & configure "LED 1 & LED 2 " go to step 3.
Alternatively, the message opposite may be displayed if:
 - There is already an LCD Terminal with the same address no.
 - The module no. is too high for the memory size / configuration.
 In either of these cases proceed to step 3.
 - The module is waiting to be initialised. (~5 to 10 seconds)
3. Enable Terminal configuration mode. Hold down the <HELP> key; Short LK2 (RESET); Wait 2 seconds; then release the <HELP> key.
4. **Terminal Number.** Select an LCD Terminal number between 1 and 8, that isn't already used in the system. The terminal numbers that you can use will depend on product (1000 or 2000) and memory option fitted. Then set the module number by entering the required number on the keypad, followed by <OK> to save.
5. **Contrast (View angle) Setting.**
Use Up/Down Arrow keys to adjust the contrast (View angle) required.
6. **LED Control.** To control LEDs 1 and 2 via the two terminal auxiliaries (e.g. AX1 & AX9 on Terminal number 1), Use Right Arrow key to select "On", then press <OK>. See table below.
7. Use the Left Arrow key at any time to scroll back through the questions. Press the <END> key when finished. Other Terminal options are set in "LCD Terminal Programming", <MENU>, 7, 2.
8. **Reconfigure the LAN.** If the new Terminal Number is not Number 1, the "No. of Modules" option must be performed.
Logon to an existing Terminal with the Installer Code then press <MENU>, 7, v, 0. Check the "Modules Present" display for details of the current Module status.
9. Press <OK> 3 times to step through the LAN options and reconfigure the LAN. Check the display information at each step.
10. Press <MENU>, 7, v, 0 again and check the "Modules Present" display to confirm that the new Terminal number is present and also check that all Modules connected are operational.

Display message:

e.g.
01/01/88 00:00
Area 9 is Off

T2000 v1.0

Display shows:
Module Number
Change No: 01

Contrast ^/v

Leds >
Off

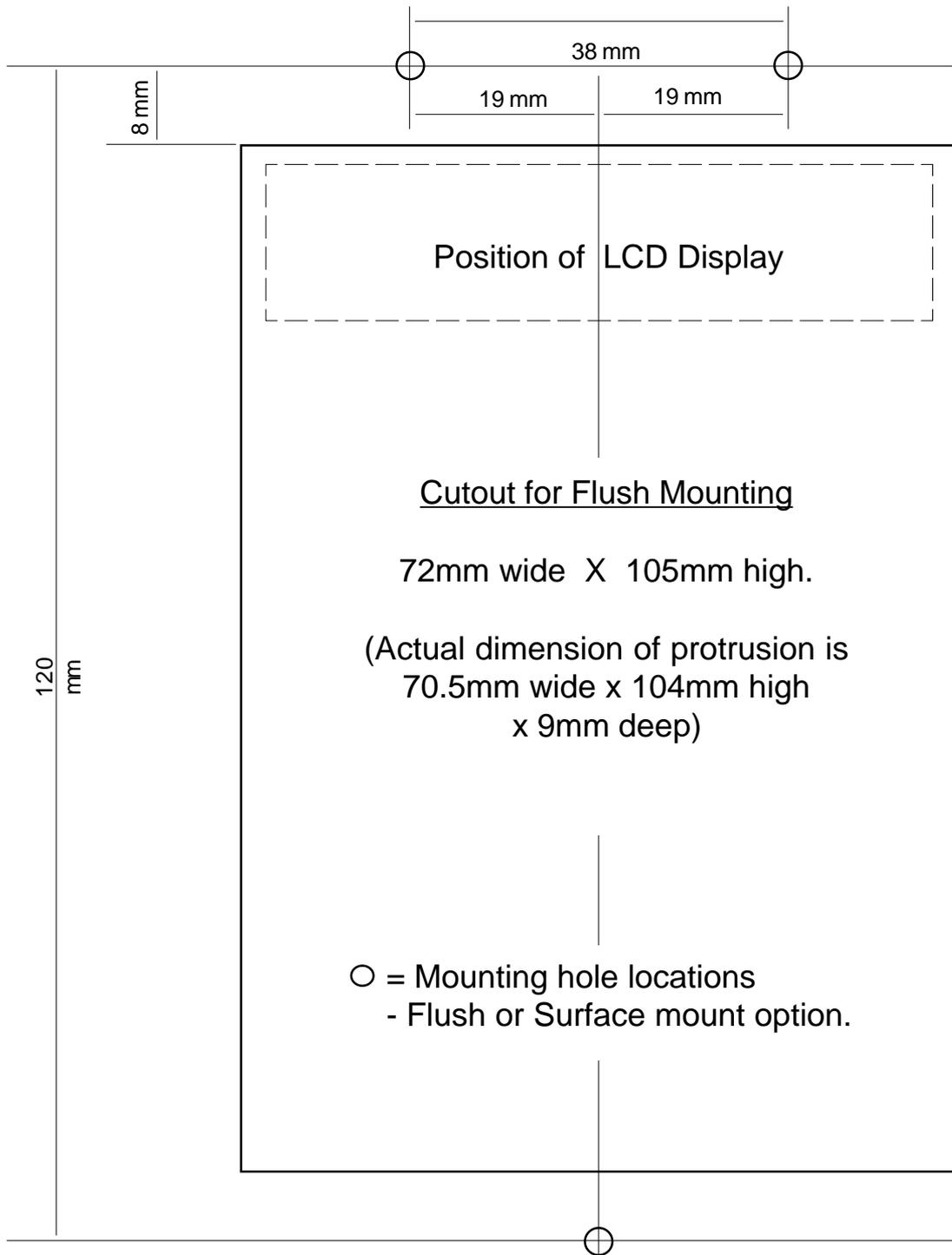
Modules Present
Terminals: 1, 2,

NOTE: Refer to the Installers manual page 3-3 to 3-5 for full details.

AUXILIARIES

TERMINAL No:	AX1	AX2	TERMINAL No:	AX1	AX2
1	01	09	5	05	13
2	02	10	6	06	14
3	03	11	7	07	15
4	04	12	8	08	16

Installation Template



Tamper Switch Actuator



Surface mount option.
Plunger left intact.



Flush mount option.
Top of Plunger removed.