



Fire Protection Products

# Compact FF & Nurse Station Annunciator Alarm Display Units

FP0880, FP0881, FP0865, FP0866

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## INSTALLATION INSTRUCTIONS

### Description

The Nurse Station Annunciator is a small intelligent Alarm Display Unit, intended for use in hospitals and other applications where staff need a simple means of seeing and responding to alarm messages from the fire alarm system. It has a display panel showing text messages in two lines of 40 characters each, and three buttons on its keypad to allow alarms to be scrolled, acknowledged or reset by an operator.

The Compact FF is a small unit for displaying fire alarm information to fire brigade personnel or the like, remote from the fire panels. It has a user interface that complies with AS4428.1. It should not be used with *MX1* as it has a different fire brigade user interface.

These ADUs can be connected to *MX1*, *MX4428* or *F3200* fire alarm systems using Panel-Link networking or to *MX1*, *MX4428*, *F3200/NDU*, *FP1600* or *Sigma 5* fire alarm systems using *RZDU Comms*. Programming facilities allow the selection of individual or groups of zones and points that can be displayed and controlled by the ADU.

There are two standard versions of each ADU available: flush mounting and surface mounting. Refer to the diagrams on page 2. There is no electrical difference between the two versions.

### Specifications

Unit Size:	Refer to diagrams on page 2
Shipping Weight:	1.4 kg
Operating Environment:	Operating temperature 0-50°C, storage 0-70°C. Humidity 0-95% RH (non-condensing)
IP Rating:	IP30
Operating Voltage:	9.6 – 28.8VDC
Operating Current:	0.38A max at 9.6V supply, 0.18A max at 24V supply. (not including external buzzer load)
LCD Character Height:	5.5mm
Internal Buzzer Sound Level:	80dBA nominal "loud" @ 1m on axis
External Buzzer Drive:	Supply voltage less 1V, 100mA max.

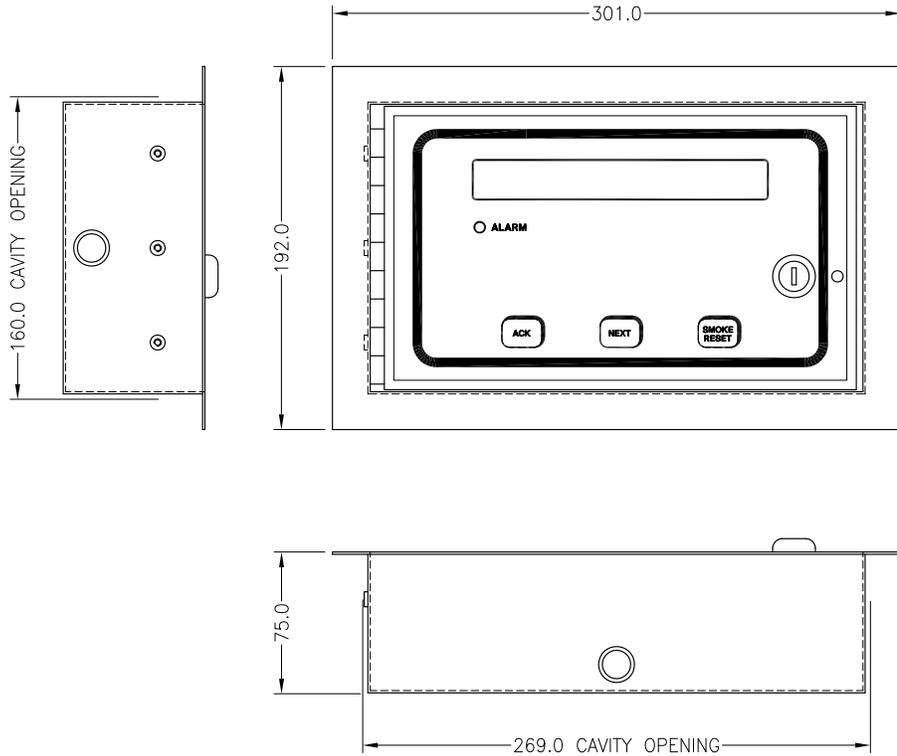
### Operation

Operation of the ADU is described in Chapter 6 of the *F3200/NDU/ADU Programming Manual LT0256*.

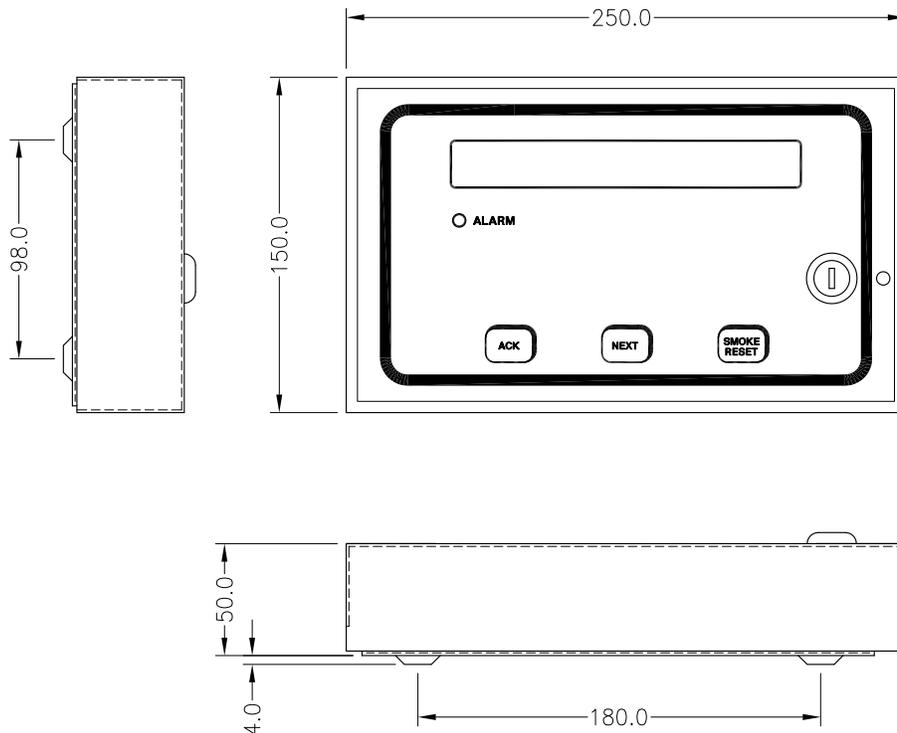
### Mounting

Flush Mount – fits into an opening at least 160mm high x 269mm wide, and is held in place by fasteners through the sides or rear of the cabinet.

Surface Mount – fits on a flat surface of at least 150mm high x 250mm wide, and is fixed by four screws through the rear of the cabinet. Both cabinet versions are designed for indoor use and are not suitable for installation in outside or damp locations.



**FP0880/FP0866 – Flush Mounting – Dimensions and Mounting Details**

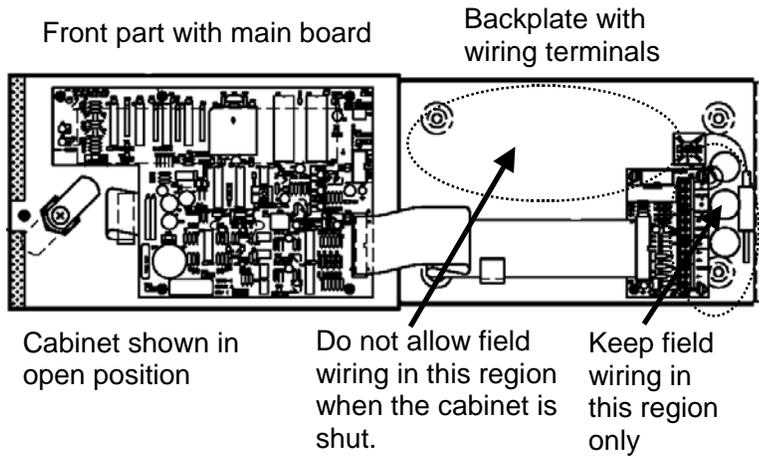


**FP0881/FP0865 – Surface Mounting – Dimensions and Mounting Details**

## Wiring

All field wiring is connected to the terminal board mounted on the inside rear of the cabinet.

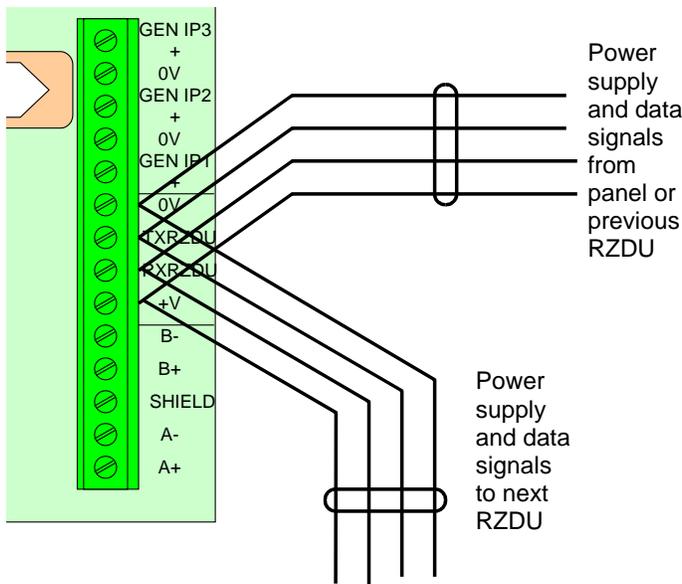
All terminals are rising clamp type, with a capacity of 2.5mm<sup>2</sup> each.



### IMPORTANT NOTE:

Field wiring can bring electrical noise into the cabinet, which may affect the digital circuitry on the main board.

There is very little space in the cabinet, especially the Surface Mounting version, so cables must be restricted to the areas shown.

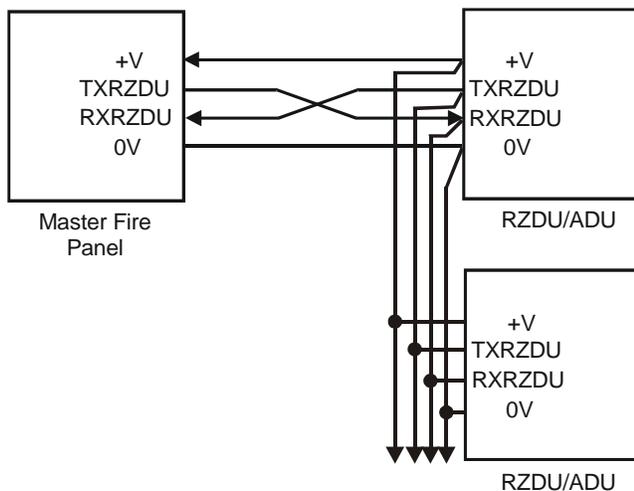


### Wiring for use in RZDU Mode

The RXRZDU and TXRZDU data signals use 0V as a common return, so both power and RZDU signals must come from the Master fire panel.

The cable can be a single four core type or a pair of twin core types.

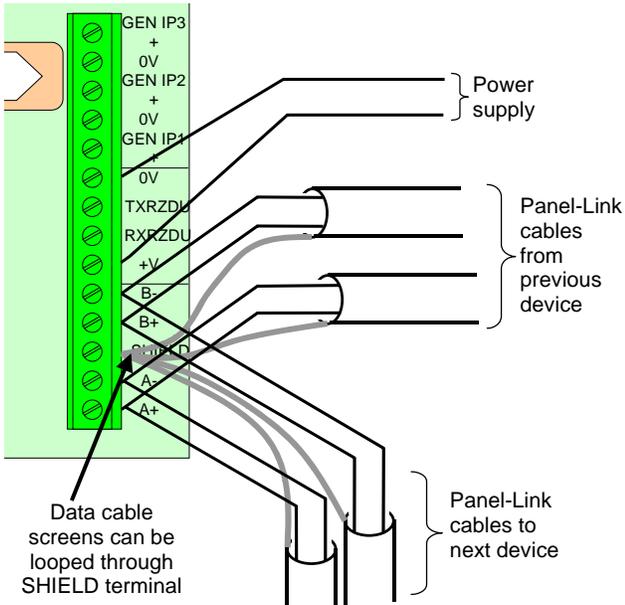
RZDU Comms is available with V5.xx firmware onwards.



### Note

The TXRZDU and RXRZDU signals must “cross-over” between the the Master panel and the first RZDU slave, as shown here.

There must not be any wiring crossover between RZDU slaves.



### Wiring for use in Panel-Link Multi-Drop Mode

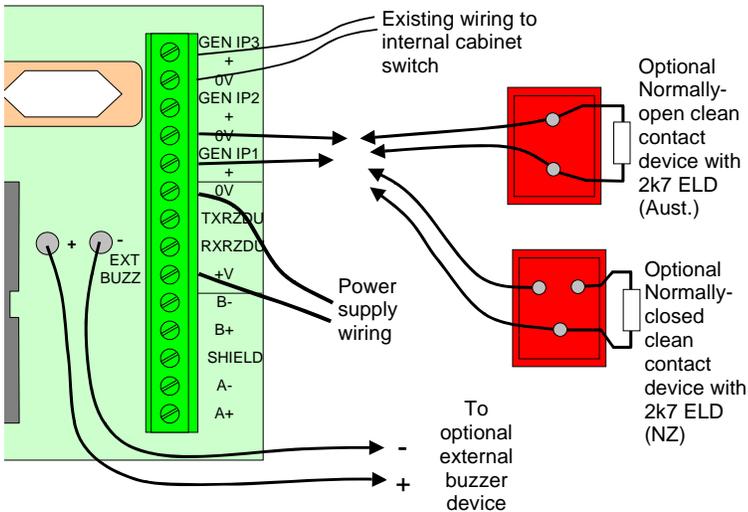
The Panel-Link data signals A+, A-, B+, B- are electrically isolated from 0V, so the power supply can come from the nearest convenient source, independent of the data cable route.

The power supply cable can be unscreened twin core, but screened twisted pair cable is strongly recommended for the data cables, as shown.

### Wiring for Panel-Link Point-to-Point Mode

The ADU may be programmed for Panel-Link Point-to-Point Mode (refer LT0256 for details). In Point-to-Point mode the ADU uses the TTL Serial Port 0 connector J2 for connection to an I-HUB, PIB or a fire panel sharing the same power supply.

LM0152 is used to connect to the I-HUB TTL Port J4 or directly to an F3200, MX4428 or MX1 Network port. LM0576 connects to the PIB Panel-Link Port J24. For other connection types refer to LT0256 Chapter 6.



### Optional External Buzzer & MCP

An external buzzer can be connected as shown using 2.3mm receptacles. Maximum buzzer load is 100mA.

A Manual Call Point or similar clean contact device can be connected to the GEN IP1 terminals (cannot be used with MX1 for Standards-compliant systems). For New Zealand systems, the MCP does not comply with NZS 4512 (there is no LED), so should not be used when standards compliance is required.

These inputs are protected and can safely be extended outside the cabinet.

### Configuration

Configuration and programming of the Compact FF and Nurse Station Annunciators requires a PC or laptop with a serial communications port and the PanelX software package. Refer to the F3200/NDU/ADU AS4428.1 Programming Manual (LT0256) for details. Link LK3 (service mode) on the circuit board should be fitted for normal operation. Link LK3 can be removed while the unit is being serviced, to reduce buzzer volume.

### Ordering Information

FP0880	Nurse Station Flush Mounting	FP0865	Compact FF, Surface Mounting
FP0881	Nurse Station Surface Mounting	FP0866	Compact FF, Flush Mounting

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