

# FIRETRAX PROFESSIONAL

## CONVENTIONAL FIRE ALARM CONTROL PANEL



# Quick Start Engineer Guide

## 6.0 Programming

### 6.1 Overview of the panel's external controls.

On the professional range of fire panels there are three levels of access:

- Level 1 (General User )
- Level 2 (Authorised User )
- Level 3 (Engineer)

The functions of each of these levels are detailed below.

#### 6.1.1 General User (Access Level 1)

This is the normal state for the fire panel, the LED's give a complete overview of the current status of the system; the display clearly shows any zones in fire or fault condition as well as any zones or outputs that are currently disabled or in test.

The only functions that are available at this level are:-

- Mute the panel buzzer
- Test the Led display and panel buzzer
- Code Entry to gain Level 2 access

#### 6.1.2 Authorised User (Access Level 2)

Access to this level of controls is limited via entering the code 2143 (or turning the keyswitch to the ON position); this is required to stop unauthorised changes to critical functions of the fire alarm.

The following functions are available at this access level:-

- Silence the sounders
- Resetting the panel from a fire condition
- Manually activating the sounders (To perform a routine test or evacuate the building)
- Putting/Removing a zone into test
- Disabling/Enabling any (or all) of the following:  
Zones, Earth faults, Sounders or the Fire output

For details on the above functions and there correct operation please refer to the USER GUIDE.

#### 6.1.3 Engineer (Access Level 3)

Access to this level is gained by the removal of the front cover. The following controls should only be changed by competent service personnel.

- Override Access Required
- Relay Activation Selection
- Zone 1 Latching/Non-Latching
- Keypad Access Disabled
- Short=Fire Enabled
- Program Repeater Panels

The following section will detail how the features of the above options and how they can be enabled or disabled.

## 6.2 Enabling Engineer Options

### 6.2.1 Engineer Button

This button allows the engineer to enter engineer mode. And will scroll through the available options.

### 6.2.2 Access Jumper

This is a two position jumper which gives the engineer the option to bypass the need to enter the user code to gain access to Level 2. This is useful during the commissioning of a fire panel.

<b>Access Jumper</b>	ACCESS	This jumper can be used to permanently enable the keypad while the engineer is working on the fire panel. <b>NOTE: This jumper must be placed back in the keeper position before the fire panel cover is replaced.</b>
	KEEPER	This is the default place for this jumper, and must be replaced here before the panel installation is finished.

### 6.2.3 Relay Jumper

This jumper controls the function of the onboard relay; the relay can be switched on either a fire condition or a fault condition.

<b>Relay Jumper</b>	FIRE	With the jumper in this position the relay will be de-energised during a fire condition.
	FAULT	With the jumper in this position the relay will be de-energised during a fault condition. <b>NOTE: To comply with EN54 the jumper must be in this position.</b>

### 6.2.4 Zone 1 Latch

This jumper controls the facility to turn zone 1 from latching to non-latching.

<b>Zone 1 Latch</b>	ON	This jumper makes zone one a latching fire zone or a non-latching fire zone. Non-latching zones can be used for networking multiple fire panels together.
	OFF	Zone 1 acts as a normal latching fire zone.

### 6.2.5 Keypad Access

This jumper can be used to disable code entry from the keypad; you must have the keyswitch option fitted to the panel to be able to use this option.

<b>Keypad Access</b>	ON	This enable level 2 access by either keypad code entry or via the keyswitch (if fitted)
	OFF	This jumper disables keypad code access to level 2 of the fire panel. This function must only be used were the keyswitch option is fitted.

### 6.2.6 Short=Fire

This jumper enables the use of older style smoke detectors which present a short it fire condition not the usual resistance load.

<b>Short = Fire</b>	ON	This option is used when the panel is connected to old style smoke detectors that apply a short to the zone in fire condition. This option is global to all the zones.
	OFF	The Fire zones act as normal: A short on a zone produces a fault condition A 230Ω to 680Ω generates a Fire condition. <b>NOTE: To comply with EN54 the jumper must be in this position.</b>

### 6.3 Programming Repeater Panels.

The following section will detail the programming and reviewing of repeater panels to the main fire control panel.

The Following Controls are used:-

	Control	Action	Description
Buttons	Engineer	Pressed	Scrolls through the available Engineer options
	Accept	Pressed	Press to enter into Repeater Program mode, Learn Mode or Review Mode
	Toggle	Pressed	To scroll the options in Repeater Program mode (Learn or Review mode)
	Exit	Pressed	To Exit out of either of the Programming modes (Learn or Review)
LED	Repeater	ON	In Engineer Mode, press accept to enter into Repeater Program Mode
		7 Off / 1 On	Learn Mode: Press ACCEPT to enter into Learn mode
		7 On / 1 Off	Review Mode: Press ACCEPT to enter into Review mode
		1 On / 1 Off	In Review Mode: Press EXIT to return to Engineer options

#### 6.3.1 Repeater Learn Mode

1. Press Engineer button until the repeater LED is illuminated
2. Press the TOGGLE until the Learn mode is selected (Learn Mode = Repeater LED will flash 7 OFF/1 ON)
3. Press ACCEPT to enter Learn Mode.
4. The panel will then search for Repeater Panels connected to the fire control panel.
  - a. If the panel finds any repeater panels it will give 2 beeps and advance back to Engineer options with Review mode highlighted.
  - b. If no repeaters are found the panel will give a long beep and return to Engineer options with Learn mode highlighted.
5. Press EXIT to leave Engineer options.

#### 6.3.2 Repeater Review Mode

1. Press Engineer button until the repeater LED is illuminated
2. Press the TOGGLE until the Review is selected (Review Mode = Repeater LED will flash 7 ON/1 OFF)
3. Press ACCEPT to enter Review Mode.
4. The repeater LED will then flash 1 ON/1 OFF to display your in Repeater Review Mode.
5. If any repeaters have been programmed into the fire control panel the Fault LED on zone 1 will illuminate.
6. Zone 1 Fire LED will then flash to show the number of repeaters currently programmed into the fire control panel followed by a 5 second gap before repeating then number of programmed repeaters.
7. Press EXIT to return to Engineer options.
8. Press EXIT to leave Engineer options.

#### 6.3.3 Check All Repeaters

After programming the fire control panel with repeater panels you should review the number of repeater panels that the system has programmed in corresponds to the number of repeater panels you have installed. If there is a discrepancy check that each of the repeater panels are not showing any communication faults.