FirePoint

SYSTEM 5000

5-5230
INSTALLATION MANUAL

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1. Introduction

The installation and programming of the 5-5230 Radio 2 Input Transmitter used in conjunction with the System 5000 FirePoint Control Panel, is detailed in the following instructions.

The 2 Input Transmitter is a monitored input device, capable of transmitting fire alarm and fault signals to the control panel upon activation of its hardwired inputs.

2. Transmitter positioning

The optimum position for the 2 Input Transmitter will be determined upon a radio site survey. To ensure reliable communication it is essential that the unit is installed at the exact location specified upon this survey. The maximum range between device and control panel is dependant upon the environment in which the system is operating.

When selecting a site for the unit, the installing engineer should be aware that the device should be as far away from other electrical and electronic equipment as possible. Metal objects such as filing cabinets, pipe work, radiators and air conditioning ducts will also adversely affect the performance of the system if they are too near the device.

3. Installation

The 2 Input Transmitter is a battery-powered device therefore no power wiring is necessary. The units input connection details are shown in Figure 2. The following paragraphs outline the installation in a step-by-step format.

The transmitter should now be logged on to the system (see the 2 Input Transmitter Logging on Procedure section). Note: If the unit is supplied with the system, it will already be logged onto the system.

Remove the four lid retaining screws situated on the front cover. The front lid can now be removed. Offer the unit up to the wall and using the back plate as a template mark out the four fixing holes. The unit can be fixed to the wall and all external wiring connections made.

Connections to the hardwired Fire In input have to be wired using 4k7 and 680R resistors in a normally open circuit. (See Figure 2). When the Fire In input goes closed 680R resistance will be seen, the 2 Input Transmitter will then send an alarm signal.

680R	=	Fire
Open Circuit	=	Fault
Short Circuit	=	Fault
5K4	=	Clear

When wiring into the hardwired Fault input from a conventional hardwired panel see the Wiring Conventional Panels to the Fault input section for more information.

When all connections have been made and the unit has been logged on to the system the lid can be re-fixed.

4. Logging on Procedure

The process of adding 2 Input Transmitters to the System 5000 FirePoint Control Panel, is largely carried out automatically, by the panel's own operating system. It is usual practice for each unit to require "logging on" to the system. In such cases, the following action must be taken. Should the system have been received "pre-programmed", the unit will have been added to the system at the factory and this section will not be required.

To log on a device onto the System 5000 FirePoint Control Panel, take the device in front of the panel. Insert the key into the panel controls keyswitch, located at the right of the panel.

Step No	Action	Screen Display
1	Turn the key to the 'ON' position and the screen will display:	Panel in Access Date Time
2	Press the '0' key and the screen will now display:	|***Options **** | >Passwords < |Time and Date | Yes =Select Time
3	Press the '∇' key until the screen displays:	| Logging | >Fire System Opts < | /\/\/\/\/\/\/\/\/\/\ | Yes = select Time
4	Press the 'YES' key and the screen will now display:	| ** Fire system ** | > Dev. Disable/Test < | Net. Disable/Test | Yes= Select Time
5	Press the '∇' key until the screen displays:	| System Mode | >Engineers Config < | Printer Options | Yes= Select Time
6	Press the 'YES' key and the screen will now display:	Enter Your PIN For Access> Then Press YES Time
7	Enter '221100' then press the 'YES' key and the screen will display:	|** Eng.; Config ** | >Device Database < | Sounder Options | Yes= Select Time
8	Press the '∇' key until the screen displays:	| Sounder Options | >Log On Devices < | Site Survey | Yes= Select Time
9	Press the 'YES' key and the screen will now display:	Logon DISABLED(000) Push YES to change Push NO to escape Push YES/NO Time

10 Press the 'YES' key to change and the screen will now display:

```
|**Logon Options**    |
> Logon Slot :AUTO  <
|  Slot is       :FREE   |
Yes= Select          Time
```

11 Press the '0' key and the screen will now display:

```
Enter Device
 (Numbers 1-256)
 Number>
Yes= Finish          Time
```

12 Enter the slot number that you want to add a device to (e.g. 125) then press the 'YES' key and the Screen will now display:

```
|**Logon Options**    |
>Logon Slot :125       <
|Slot is       :FREE    |
Yes= Select          Time
```

13 Press the '∇' key until the screen displays:

```
| Slot is       :FREE    |
>Logon is DISABLED<
|VVVVVVVVVVV|
```

14 Take the device you want to log on. Remove the 'TX 740 Isolate' and 'Isolate 3V5' jumpers (detailed in 'Figure 1'). Press the 'YES' key and the screen will now display:

```
| Slot is       :FREE    |
> Logon is  ENABLED<
|/VVVVVVVVV\|
```

15 Re apply the devices 'TX 740 Isolate' and 'Isolate 3V5' jumpers (detailed in 'Figure 1') and the screen will now display:

```
Logon Default Device
125

 Yes= Select         Time
```

16 Press and hold the 'Front/Rear Tamper' Switch (shown in 'Figure 2'). Once its addition to the system has completed, the screen will change to display:

```
Added Default Device
125

 Yes= Select         Time
```

17 The devices 'Tamper Micro Switch' can now be released. Press the 'YES' key until the screen displays:

```
| Slot is       :IN USE  |
>Logon is DISABLED<
|VVVVVVVVV\|
```

Note: This function must be returned to disabled once the logging on sequence has been completed.

18 Press the 'NO' key until the screen displays:

```
01 FAULT     TOT 02
Default Device 125

ZONE 01 DEVICE 125
```

Note: After logging the device on to the system there will be two faults: -

1st fault is processor reset.
2nd fault is the Tamper.

(To clear the faults press Silence Alarms button and then the Reset/LED Test button until the faults have cleared).

19 After the faults have been cleared turn the Control key switch to the 'OFF' Position and the screen will now display:

```
   Status Normal

Date              Time
```

Figure 1

5. Input Connections

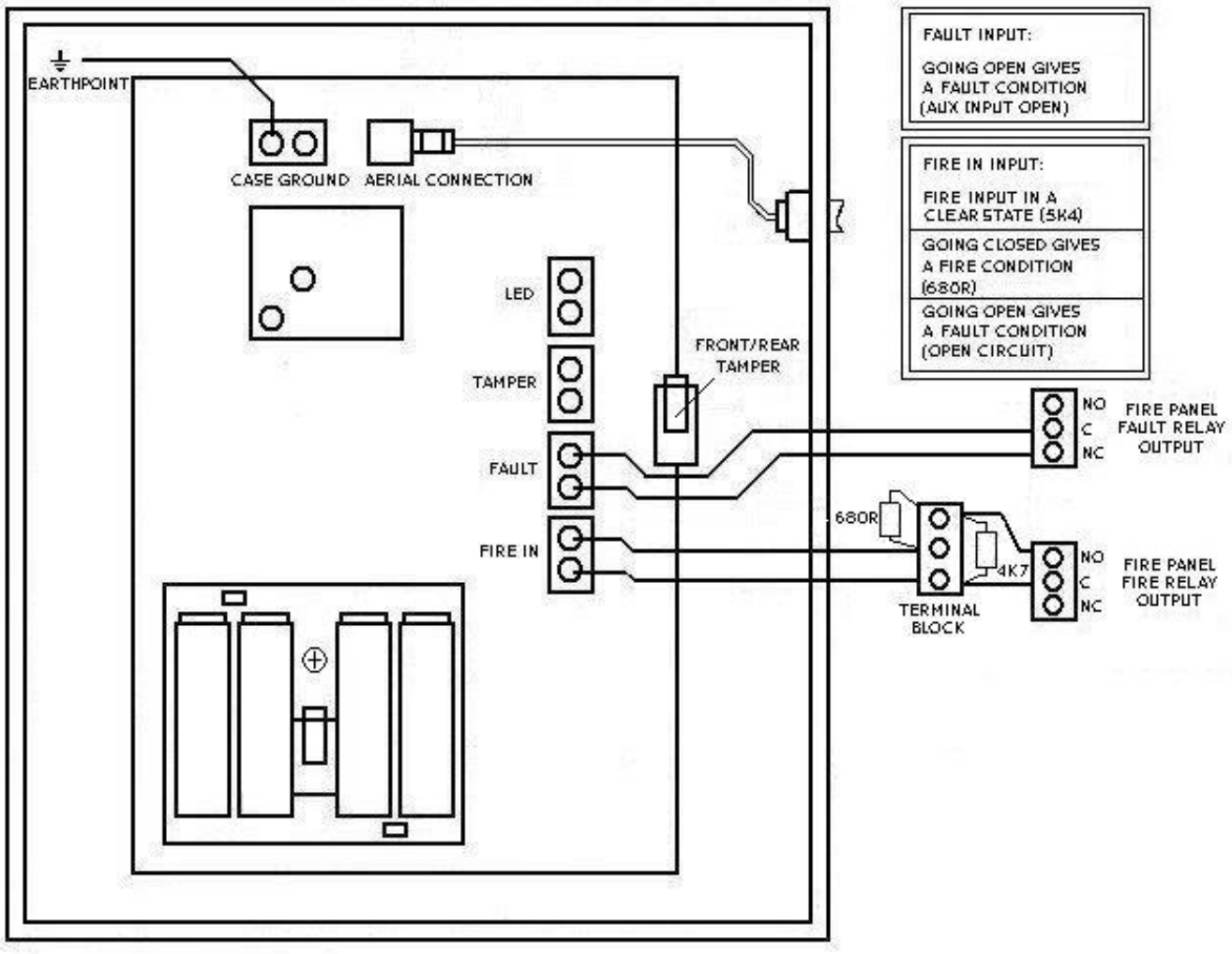


Figure 2

6. Wiring Conventional Panels to the 'Fault' Input

Some conventional hardwired Control Panels when resetting alarms drop their voltage output to stop the hardwired sounders running. This in turn operates the fault relay output. When connected to the 2 Input transmitters 'Fault' input, this can result in the transmission of a fault condition to the System 5000 Firepoint Control Panel. It is recommended that a timer pcb be fitted to the input to overcome this. The part number for the ER301 timer pcb is 101248. Connections for this can be seen below in 'Figure 3'.

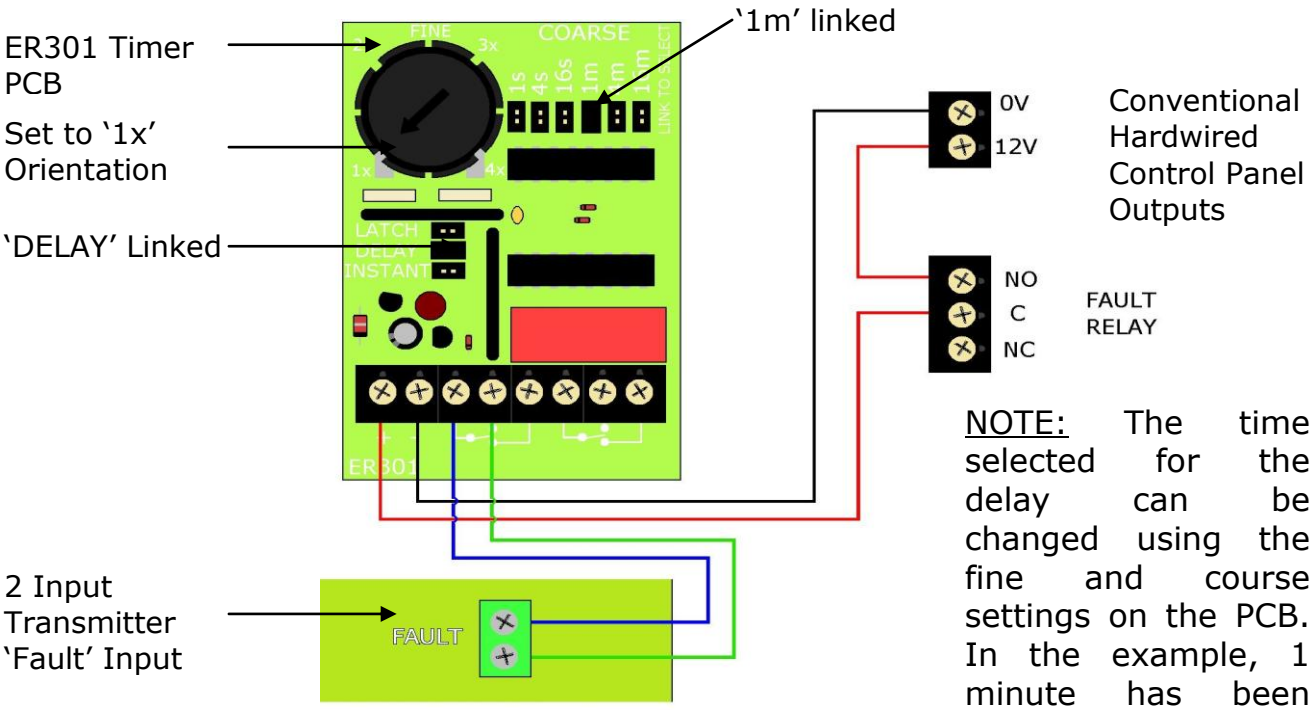


Figure 3

NOTE: The time selected for the delay can be changed using the fine and course settings on the PCB. In the example, 1 minute has been selected.

7. Input Status

The status of the inputs can be seen by interrogating the system log. Details on how to view the system log are shown in the 'Engineers Operating Guide'.

Details on what each of the logged fault conditions represent can be seen in the table below: -

System Log Description	Fault Type
Aux Input: Open	Fault Input: Open Circuit
Aux Input: Input Restored	Fault Input: Connection Restored
Open Circuit	Fire Input: Open Circuit
Condition Ready	Fire Input: Connection Restored
Into Fire Alarm	Fire Input: Fire Condition
Out Of Fire Alarm	Fire Input: Out Of Fire Condition

8. Testing The System

When the 2 Input Transmitter has been logged onto the system and fully installed, the 'Fault' and 'Fire In' inputs should be activated and the control panel checked to ensure the correct alarm activations are received. The supplied Test LED can be utilised in the 'LED' input to check the 'Fire In' inputs current state. The Test LED will illuminate whilst the 'Fire In' input is in an active (closed) fire state. The inputs should be cleared and the control panel reset. The Test LED should consequently extinguish. Upon completion of testing, the LED MUST be removed to prevent reduction of battery life.

9. Wiring a Fire Ray Beam Detector to the 2 Input Transmitter

The 2 Input Transmitter can be used to signal fire alarm and fault conditions from the 5-FSR50 and 5-FSR100 Fire Ray Beam units. Below is a wiring diagram detailing the required connections.

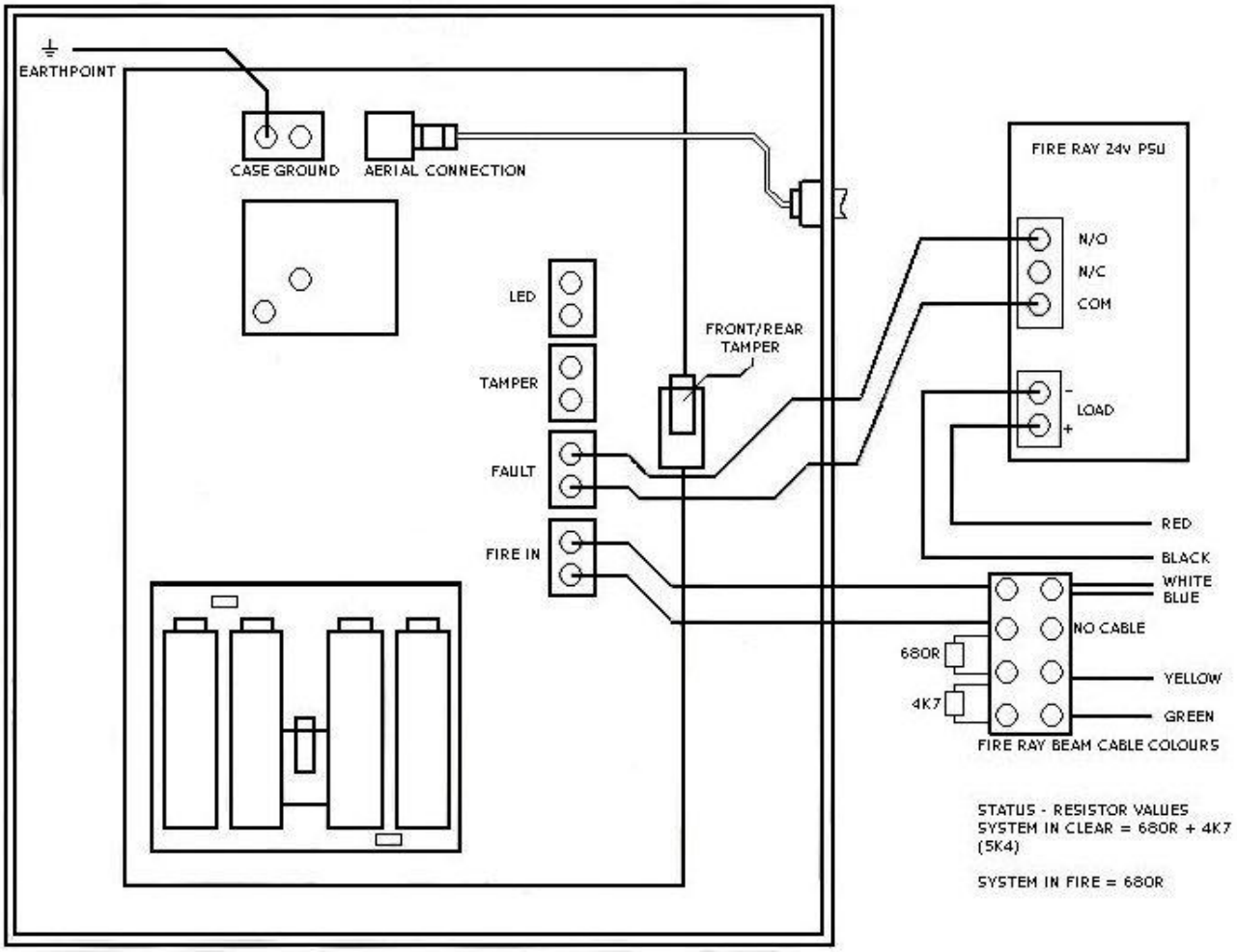
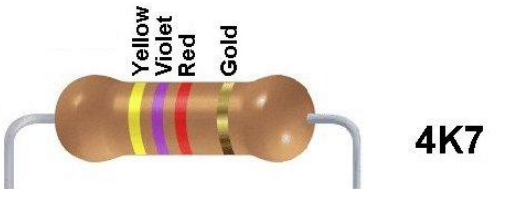
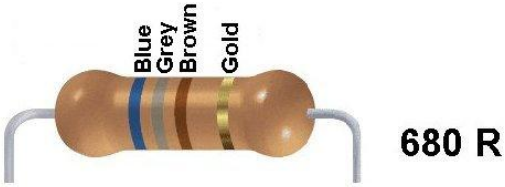


Figure 4

10. Resistor Colour Codes:





11. Ancillary Items

5-5230	2 input transmitter signalling fire and fault
101248	ER301 timer PCB
5-5806	Replacement lithium battery board for 2 input transmitter
5-FSR50	50 Metre Fire ray beam detector c/w PSU
5-FSR100	100 Metre Fire ray beam detector c/w PSU