Q14. What do the fault event log descriptions mean and how do I resolve these issues?

Analogue	Device Type	Symptom	Rectification Process
0	All	Disconnected Fault	Check that the device is in its location and is powered. If so we need establish whether the device or its location is the cause of the problem. Refer to the 'How do I overcome signal level issues?' section.
0	All	Battery Missing	Check battery connections and voltages.
0	RCC	Mains Fail	Check the RCC mains supply.
1	Detector	Head Fault	Check that the device is correctly assembled. Failing this, it is recommended that the detector is replaced.
1	Sounder	Sounder Audio Fault	Check the devices audio monitoring switches are set correctly. See the devices installation instructions for more information.
1	Radio Hub	Receiver Fault	Try resetting the Radio Hub.
2	Detector / Sounder	Head Missing	Check that the device is correctly assembled. The fault will clear upon successful relocation.
4	All	Tamper	Check that the device is correctly assembled. The fault will clear upon successful relocation.
4	I/O	Tamper / Input Fault	Check the 20k end of line resistor is in place and that connections are secure.
4	Radio Hub / RCC	Aerial Tamper	Check for the 47k end of line resistor when measuring between the centre pin and the outer screen of both aerials cables and that connections are secure.
5	All	Signal Strength Warning	Check devices location to ensure no visible cause can be seen. Check device signal level in the Global Sig Stat menu. Refer to the 'How do I overcome signal level issues?' section.
5	Radio Hub	Signal Strength Warning	Has any electrical equipment recently been installed in close proximity of the Radio Hub. If so it may need to be moved to an acceptable distance. See Radio Hub Installation instructions for details.
5	RCC	Signal Strength Warning	Has any electrical equipment recently been installed in close proximity of the RCC. If so it may need to be moved to an acceptable distance. See RCC Installation guide for more information.
7	All	Battery Low	Replace all batteries. See the installation instructions for more details on specified batteries.
7	RCC	Batt / Charger Fail	Check the RCCs battery connection voltage.
35	Detector	Head Dirty / Compensation	It is recommended that the detector is replaced for new. Note: Where temporary work involving the generation of dust, smoke, paint spray, and other aerosols is to be carried out in an area protected by smoke detectors, the supplied dust covers must be temporarily fitted to prevent contamination or false alarms. The devices should also be temporarily disabled at the Control Panel. Care must also be taken to ensure that the dust covers are removed and the devices re-enabled once the environment is clear. Warning: DO NOT open the case to clean inside the detector.

Frequently Asked Questions (V3 Software)

Q1. How do I stop the sounders operating so I can test devices for a routine maintenance?
To disable the sounders, with the control panels 'Enable Control' ON, select;
'ACCESS LEVEL 3' (Default '3333') –>*pin entry* –> ENGINEERING DISABLEMENTS AND SETTINGS –> TIMED DISABLEMENTS –> DISABLE SOUNDERS

Q2. How do I disable the Panels Relay Outputs?
The Fire, Alarm and Fault Contacts can all be independently disabled on the control panel, with the 'Enable Control' ON, by selecting;
DISABLEMENT / SELECT DELAYS –> DISABLE PANEL OUTPUTS

Q3. How do I view the Panels device event log?
To view the system event log, with the control panels 'Enable Control' ON, select;
'ACCESS LEVEL 3' (Default '3333') –> *pin entry* –> 'VIEW PRINT EVENT LOG' –> 'VIEW EVENT LOG'

Q4. How do I reset faults/alarms?
To reset faults & alarms from the control panel, with the 'Enable Control' ON, press <RESET>.

Q5. How do I check what is disabled on the panel?
To check what is disabled on the Control Panel, with the 'Enable Control' ON, select;
'DISABLEMENTS / SELECT DELAYS' –> 'VIEW & RESTORE DISABLEMENTS'

Q6. Devices are in disconnect fault after powering the system up for the first time, why?
The devices are not powered up. Check switch 1 is on for combined sounder detector devices and check power jumper links are on for all other device types. See individual device installation instructions for further details.

Q7. How do I remove a new device from the Radio Hub?
To remove a device on the Radio Hub, select; *Front Display* Remove Device

Q8. How do I add a new device to the FireCell System?
New devices must be added to the Control Panel and the Radio Hub, ensuring the Loop number and addresses programmed at the Radio Hub correspond to that programmed at the Control Panel. Once completed the new devices must be assigned. (See Q9).

To add a new device on to the Control Panel, with the write switch enabled and the 'Enable Control' ON, select;
'ACCESS LEVEL 3' (Default '3333') –> *pin entry* –> 'EDIT CONFIG' –> 'ADD DEVICE' –> *select applicable loop number* –> *select applicable loop address number* –> *select applicable device type* –> confirmation of addition shown

Adding a new device to the Radio Hub can be achieved by one of two methods. (Either by log on or by ident). Both ways are shown overleaf:

To add a new device by log on, select;
From Front Display → Add New Device → *Select Desired* RCC No 1 → Set Loop 1 → Addr 003 → Add By Log On → Press Dev Log On *followed by* Add Dev 03456 Y? → New Addr L1 A003

To add a new device by ident, select;
From Front Display → Add New Device → *Select Desired* RCC No 1 → Set Loop 1 → Addr 003 → Add By Ident → *Select Device Type* Optical → Add Dev xxxxx N *'Enter Device Ident* → Add Dev 03456 Y? → New Addr L1 A003

Q9. How do I Assign a device to the Radio Hub?
All newly added devices need to be assigned to the system. To assign the devices, select;
From Front Display → Assign Device → Assign ALL → Dev 000 of 001 *changing to* Done 001 of 001 *(once complete).*

Q10. How do I replace device on the FireCell System?
To replace a device on the system, the device must be removed from the Radio Hub (See Q7) and added back to the system (See Q8). Once added the new device will need to be assigned (See Q9).

Q11. How do I check devices analogue values on the Control Panel?
Checking the devices analogue values and the interrogation of the devices signal readings is possible on the Control Panel, with the 'Enable Control' ON, by selecting; 'VIEW DEVICES' **–>** 'VIEW DEVICES BY LOOP' **–>** 'VIEW LOOP 1 - 14 DEVICES ' **–>** *'Scroll up and down to scroll through the devices on the selected loop. Note to identify what the analogue values represent, see Q14.*

Q12. How do I check signal levels for a device?
To ensure the signal levels for each device and each RCC are at an acceptable level the Global Sig Stat menu should be checked. This menu will display the signal level in dB for each device and RCC over a 24 hour period. This is listed in Loop and Address Number order. After the system has been running for a 24 hour period all device and RCC signal levels should display 20dB or above. If any devices are under the signal level requirements check the signal level improvement flowchart overleaf *(Q13. How do I overcome signal level issues?)*
From Front Display → Advanced → Global Sig Stat

An example of a display showing the levels for a system with acceptable and unacceptable signal levels is shown below:-

FireCell System Setup	Loop Number	Shown on Menu Display	Acceptable Level?
Radio Hub	Loop 1 Address 1	N/A	✓
RCC	Loop 1 Address 2	L1 A002 21dB	✓
Optical Detector	Loop 1 Address 3	L1 A003 35dB	✓
Optical Detector	Loop 1 Address 4	L1 A004 45dB	✓
Manual Call Point	Loop 1 Address 5	L1 A005 35dB	✓
Optical Detector	Loop 1 Address 6	L1 A006 38dB	✓
Heat CS Detector	Loop 1 Address 10	L1 A010 45dB	✓
Heat A1R Detector	Loop 1 Address 12	L1 A012 28dB	✓
Optical Detector	Loop 1 Address 13	L1 A013 25dB	✓
Sounder	Loop 1 Address 14	L1 A014 18dB	✗

Q13. How do I overcome signal level issues?