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Authorised: Direct Brigade Alarm Contract Manager

CodeRed ASE MK4 - Fire Panel (FDCIE) Installation

PURPOSE

To ensure the fire alarm industry in Western Australia provides a minimal Alarm Signalling Equipment (ASE) installation requirement in the fire panel or fire detection control and indicating equipment (FDCIE) and is ready for the CodeRed ASE MK4 connection.

BACKGROUND

At the beginning of the second quarter of 2024, DFES organised the industry update with the FDCIE manufacturers and released the new documents for the MK4 installation. Most FDCIE were expected to be ready for MK4 installation by the end of October 2024. DFES provided a six-month transitional period for the industry to make adjustments.

ISSUES

Due to the industry's slow uptake in adhering to the requirements set out for the installation of the MK4, as of 1 January 2025, it will be the responsibility of the C6 applicant to ensure the readiness of the FDCIE for MK4 installation.

REQUIREMENTS

The following items shall be in place to avoid postponing the installation and the ensuing reattendance fees for the Fire Alarm Monitoring Services (FAMS).

1. Sufficient space within the FDCIE for the MK4 installation 110x140x70 mm.
2. The DBA Terminal Strip is supplied and labelled for the following:
 - a. 24 VDC Positive
 - b. 24 VDC Negative
 - c. 6mm Earth terminated to the Communications Earth System (CES)

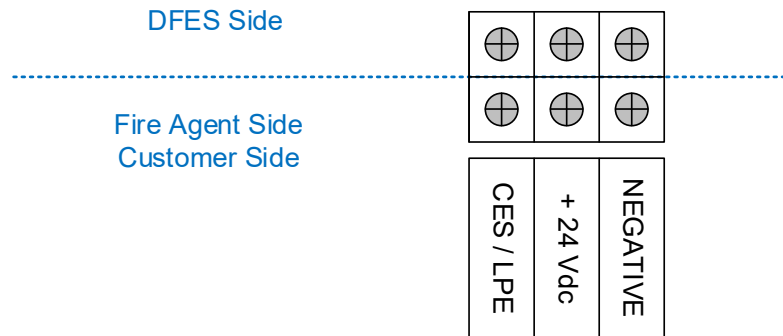


Figure 1 DBA Terminal Strip

- Individual relays must be programmed and labelled for monitoring each signal. This requires a voltage-free COM and NC contact for each input, other than a normally energised NO fault relay. The following three-letter abbreviations can be used to label relays.

Relay Labels & Cable Tag	Description
ALM	Detection Alarm – Smoke, Heat, ASD, MCP, Optical Beam, etc.
FLT	Common FDAS Fault
ISO	Common FDAS Isolate or Disable
SPK	Sprinkler Alarm – i.e. AFS, Deluge, Drenchers etc.
SIP	Sub-panel – Add a number suffix if more than one sub-panel. i.e. SIP1, SIP2 etc.
SHP	SHCIE or Special Hazard Panel
GDC	Gas Discharge – Gas Suppression Alarm
GDE	Gas Detection Alarm – i.e. Ammonia or Chlorine leak detection
MVT	Monitored Valve Tamper
LWP	Low Water Pressure
LAP	Low Air Pressure
TLW	Tank Low Water
PRN	Pump Run
PFT	Pump Fault
PSF	Power Supply Fault or PSU Fail
BFT	Battery Fail Fault

Figure 2 DBA Relay Labels

- For new installations, both coaxial cables shall be run from the FDCIE to the exterior of the building with junction boxes installed as per the Comms Installation guideline.
- For existing flush-mounted FDCIE, both external antennas are suggested due to projecting antennas otherwise being installed above the FDCIE. For existing surface-mount FDCIE, an external antenna is recommended. However, both antennas can be mounted directly to the FDCIE depending on good signal strength.

OUTCOME

Failure to adhere to these requirements, other than item 5, will result in either the FAMS technician leaving the site and the job being rescheduled at the contractor's cost or the additional time to complete the installation being charged to the contractor.

REFERENCES:

DBA - CodeRed ASE MK4 - User Manual Ver1.3

DBA - CodeRed ASE MK4 - Quick User Guide Ver1.0

DBA-D001 - CodeRed ASE MK4 - DBA Terminal Strip Drawing Ver.1.0

DBA-D002 - CodeRed ASE MK4 - DBA Comms Installation Ver.1.0

The above documents can be obtained from the FAMS website from the [Alarm Signalling Equipment](#) page.

Contact us

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