

Product Advisory: A137

Description: Gasmonitor Plus Systems

Issue: System start-up following power failure

Date: July 4th 2018

The Gasmonitor Plus control system is designed for continuous long-term use and is normally supplied with back-up batteries to ensure continued operation even when the mains supply fails. The system also provides a warning when being powered from the back-up batteries of excessive battery drain and impending system shut-down.



The system should re-start automatically if power is lost and re-instated, however there is a very small chance that the input cards may fail to communicate with the display module. In the rare event that this should occur the system will remain in Fault mode: the Fault LED will illuminate and the common Fault relay will remain de-energised. It is strongly recommended therefore that systems should always be checked after a mains power failure.

The following disciplines should be followed to ensure fail-safe operation of safety systems:

- The back-up battery capacity should be sufficient to support the system for the full duration of any foreseeable power disruption. Battery capacity can be calculated based on the system power (rack, detector and audible/visual alarm quantity) and the required back-up duration. Crowcon can advise on such calculations.
- The common Fault relay should be utilised to indicate when the system is in a non-operational state, preferably via telemetry to plant-wide control systems, or by audible/visual alarms to alert personnel locally.
- Site operating procedures should clearly instruct personnel of the appropriate actions when the system is in Fault or Alarm state.
- An 'inhibit' module is available as an option to provide a volt-free contact to indicate when any channel is in inhibit state.

For further information, please contact our Customer Support team:

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