Addressable Dual Monitor Module Specification

Compliance with standards

The Dual Monitor Modules shall be third party certified to CEA GEI 1-082 and CEA GEI 1-084.

General

Addressable Dual Monitor Modules shall be provided to connect two supervised areas of conventional Alarm Initiating Devices (any N.O. volt free contact device) to one of the C.I.E. Signalling Line Circuit Loops.

Addressable Monitor Modules shall operate on a digital protocol to give reduced power consumption, up to 159 detectors and 159 modules may be connected to a single loop.

Location of devices on the loop circuit shall with the aid of a Loop Mapping Tool be able to identify its location and address on the loop, allowing for a schematic layout drawing to be produced and printed for use in the O&M manual.

The Dual Monitor Module shall mount in a purpose made surface mount box, panel mount clip for mounting in to other equipment housings or on a DIN rail mounting clip.

The Dual Monitor Module shall include loop isolation in each unit, which shall be installer selectable as required.

Functionality

The Dual Monitor Module shall use two electronic supervised inputs to monitor the conditions of flow switches, sprinkler valves, fire dampers etc.

Dual Monitor Modules shall be loop powered and addressable devices, and shall connect with two wires to one of the C.I.E. Signalling Line Circuits.

Address setting

The Dual Monitor Modules shall utilise two module addresses with the start address being set as above and the second address being automatically assigned at the start address plus one.

Addressable Modules that use binary address setting methods, such as a dip switch, code cards or soft addressing are not acceptable.

The modules shall also feature an internal identifying code that the C.I.E. shall use to identify the type of Module.

Address switches shall be viewed in two plains such that the address is visible when mounted in a surface mount box or DIN / panel mounted.

Visual indication

The Dual Monitor Module shall provide two bi-colour LED’s to show the status of each module address. The LED’s enable red, amber and green local status indication also indicating that the module is operational and in regular communication with the C.I.E.

The LED’s shall be configurable from the C.I.E to give visual indication of:

- Device Healthy
- Fire
- Fault – Isolation in use
- Test Mode

If required, the flashing mode operation of the Dual Monitor Module LED shall be controlled through the system field program.

Additional requirements

Up to 159, addressable Modules (79 Dual Monitor Modules) may connect to one Signalling Line Circuit Loop.

The C.I.E software, not the Monitor Module, shall make the alarm/normal decision, thereby allowing the system operator to view the status of each Monitor Module.