Addressable Monitor Module Specification

Compliance with standards
The Monitor modules shall be third party certified to CEA GEI 1-082 and CEA GEI 1-084.

General
Addressable Monitor Modules shall be provided to connect one supervised area 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, upto 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 it's 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 Monitor Modules 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 Control Modules shall include loop isolation in each unit, which shall be installer selectable as required.

Functionality
The Monitor Module shall use an electronic supervised input to monitor the conditions of flow switches, sprinkler valves, fire dampers etc.

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 Monitor Modules shall provide address setting on the Module using decimal switches.

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 Monitor Module shall provide bi-colour LED's. 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 Monitor Module LED shall be controlled through the system field program.

Additional requirements
Up to 159, addressable 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.