# KAL710

## Kilsen Addressable Zone Monitoring Units - 1 Zone

### General

The KAL700 series modules include a complete range of interfaces developed for I/O control on addressable fire systems running Kilsen protocol, housed in easy to install, IP55 housings. These modules allow the fire system to perform additional building management functions during fire situations. 125 I/O addresses are available on every fire panel loop in addition to 125 fire detector addresses.

### KAL700 Conventional Zone Monitors

The KAL710 allows for the connection of one, the KAL714C up to four, conventional fire detector zones to the addressable fire system loop. Up to 20 conventional detectors or up to 32 conventional manual call points may be connected to every zone. These units allow differentiation of call point alarms from detector alarms for mixed zone applications.

The KAL710 and KAL714C provide power to the fire detector zone(s) from an external 24 VDC source, and digitally communicate the status of every zone to the fire panel. A LED on every module indicates the alarm and communication status of the module locally.

### Installation

The KAL700 Series is designed for surface mount installation. Addressing on the modules is done via easy to use DIP switches.

### Applications

The KAL710/KAL714C zone monitoring units are normally used in situations where an area to be covered does not require any sub-divisions or does not require a particular fire point recognition.

They may also be used for retrofit installations where a conventional system is replaced by an addressable system during a phased upgrade i.e. where not all conventional detectors are replaced immediately by addressable devices. Existing conventional devices may in these cases still be used with the new Kilsen addressable system.

The KAL710/KAL714C is designed to be used with Kilsen conventional detectors, but may also be used as an interface to connect with other compatible, industry standard, conventional detectors.




### Details

- EN54:18 and CPD certified
- Surface mount with high IP rating for increased protection
- Easy addressing
- Externally powered for reduced loop current
- Local alarm and communications indication
- Full supervision of one conventional fire zone
- Part of a family of I/O modules consisting of: -Conventional zone monitors -Digital input modules -Loop Isolators -Manual call points -Relay and supervised output units -Fire door controllers

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## Technical specifications

### General

| | |
|---|---|
| Status indication | LED |
| Compatibility | Kilsen KL7A systems |

### Electrical

| | |
|---|---|
| Power supply type | 24 VDC |
| Operating voltage | 22 to 38 VDC |
| Current consumption | 90 µA @ 24 V from the loop (Quiescent)<br>105 µA @ 35 V from the loop (Quiescent)<br>< 3 mA from the loop (Alarm)<br>200 µA external (Quiescent)<br>< 85 mA external (Alarm) |

### Input

| | |
|---|---|
| Input quantity | 1 |
| Input type and rating | Supervised conventional zone |
| Termination resistor | 4.7 kΩ |

### Physical

| | |
|---|---|
| Physical dimensions | 182 x 142 x 77 mm |
| Net weight | 370 g |
| Colour | Grey |
| Mounting type | Surface mount |
| Cable entries | 10 |

### Environmental

| | |
|---|---|
| Vandal proof | No |
| Operating temperature | -10 to +50°C |
| Storage temperature | -10 to +70°C |
| Relative humidity | 10 to 95% noncondensing |
| Environment | Indoor |
| IP rating | IP55 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 2, WEEE |
| Certification | CPR |
| Standards | EN54-18 |

### Compatible products

| Category | Reference | Description |
|---|---|---|
| Interface unit | KAL714C | Kilsen Addressable Zone Monitoring Units - 4 Zones |
| Interface unit | KAL730 | Kilsen Addressable Relay Output Module - 1 Output |
| Interface unit | KAL734C | Kilsen Addressable Relay Output Module - 4 Outputs |
| Interface unit | KAL740 | Kilsen Addressable Supervised Relay Output Module - 1 Output |
| Interface unit | KAL760 | Kilsen Addressable Input Module - 1 Input |
| Interface unit | KAL775 | Loop Isolation Module |

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