



# Analogue Addressable Fire Alarm Products

## Interfaces



A comprehensive range of interfaces for intelligent systems enabling fire protection systems to be engineered simply and effectively without the need for custom-designed equipment.

All Interfaces are fitted with bi-directional short-circuit isolators so that they are unaffected by a single short circuit on either loop input or output. However, the Input/Output Unit and Output Unit are exceptions to this. The removal of loop power to these interfaces will cause a 'set' relay to 'reset'. Miniature Interfaces use very compact enclosures for installation into other equipment.

DIN-Rail Interfaces feature enclosures that clip to standard 35mm DIN-Rails or are screwed to the base of a larger enclosure. They enable fire system designers to determine the functions required and create multi-purpose interfaces for individual sites.

### XP95 Interfaces

Function	Ordering Code	Standard Enclosure	DIN-Rail Enclosure	Miniature Enclosure
Input/Output Unit c/w Isolator	FPA-277	√	√	
Mains Switching Input/Output Unit	FPA-278		√	
Sounder Control Unit	FPA-279	√	√	
Output Unit	FPA-280	√	√	
Zone Monitor	FPA-281	√	√	
Switch Monitor	FPA-282	√	√	
Switch Monitor Plus	FPA-283	√	√	
Mini Switch Monitor (Interrupt)	FPA-284			√
3 Channel Input/Output Unit	FPA-499	√		

### Interface Information

#### FPA-277

##### Input/Output Unit

This unit provides a loop-powered relay, a monitored input and an unmonitored opto-coupled Input. It can report fault, switch open and switch closed levels.

#### FPA-278

##### Mains Switching Input/Output Unit

The mains switching input/output unit provides a Voltage-free, single pole change-over relay output and a monitored switch input. This unit is designed to switch machinery operating at 230V, thus obviating the need for an intermediate relay and a power supply.

#### FPA-279

##### Sounder Control Unit

This unit is designed to control a zone of sounders powered by an external DC supply. The sounders will be switched to sound continuously or be pulsed, 1s on, 1s off. Sounder control units at different addresses may be controlled individually or in selectable groups and have a facility for synchronising the outputs when being pulsed.

#### FPA-280

##### Output Unit

The output unit is a simplified version of the input/output unit without circuitry for monitoring inputs.

#### FPA-281

##### Zone Monitor

The zone monitor powers and controls the operation of a zone of conventional detectors. This device has an input Voltage, derived from the analogue loop, of 14 to 28 Volts and provision is made for the inclusion of an active end-of-line device. The DIN-rail version incorporates dual short-circuit isolation.

#### FPA-282

##### Switch Monitor

Designed to monitor the state of one or more single pole, Volt free contacts connected on a single pair of cables. Reports open and short-circuit faults on the circuit. The device produces the output states normal, fault pre-alarm and alarm.

#### FPA-283

##### Switch Monitor Plus

This product has the same functionality as the standard switch monitor but incorporates additional circuitry to monitor flow switches and provide a time delay in so doing. It also contains circuitry which can be used to reset a beam detector.

#### FPA-284

##### Mini-Switch Monitor (Interrupt)

This device is designed to monitor the state of one or more single pole, Volt free contacts connected on a single pair of cables and to report the status to compatible analogue control equipment. Monitors equipment where a fast response is required.

#### FPA-499

##### Three Channel Input/Output Unit

The three channel input/output unit provides three Voltage-free, single pole, change-over relay outputs and three monitored switch inputs. The unit is designed to supervise one or more normally open switches on each of the three inputs.

