



Addressable Modules

F100LR Loop Responder

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The **Loop Responder** extends the **Pertronic F100A** and **F120A** Analogue Addressable Automatic Fire Alarm systems by providing an interface to conventional detector circuits. It is used primarily in Conventional Circuit 'Smoke' mode to interface zones of conventional detectors into Pertronic analogue addressable fire alarm systems, but may alternatively be used in 'Switch' mode to monitor interface switches of sprinkler valves or control switches, reading the fault and alarm status from VESDA systems, or receiving commands from a SCADA system.



Features:


- Contains eight individually addressable 2-wire detector or switch circuits
- May be configured to operate in conventional circuit 'Smoke' mode or 'Switch' mode
- Each 'Smoke' mode circuit may contain up to 40 System Sensor™ conventional detectors plus an unlimited number of voltage free contact devices, such as manual callpoints
- May selectively be powered from the loop or an external isolated power supply
- External power supply monitoring
- Provides one addressable voltage free change-over relay output
- Using up to 8 **Loop Responders**, a maximum of 64 individual conventional circuits may be installed on a single analogue loop
- Connects to the standard 2-wire analogue addressable loop wiring
- Loop protection is provided by an integral short circuit isolator, maintaining normal operation with a single loop break or short circuit
- Direct dial decade address switches
- Cabinet available to house one or two Loop Responders or Loop Relay boards








Specifications:

Dimensions:

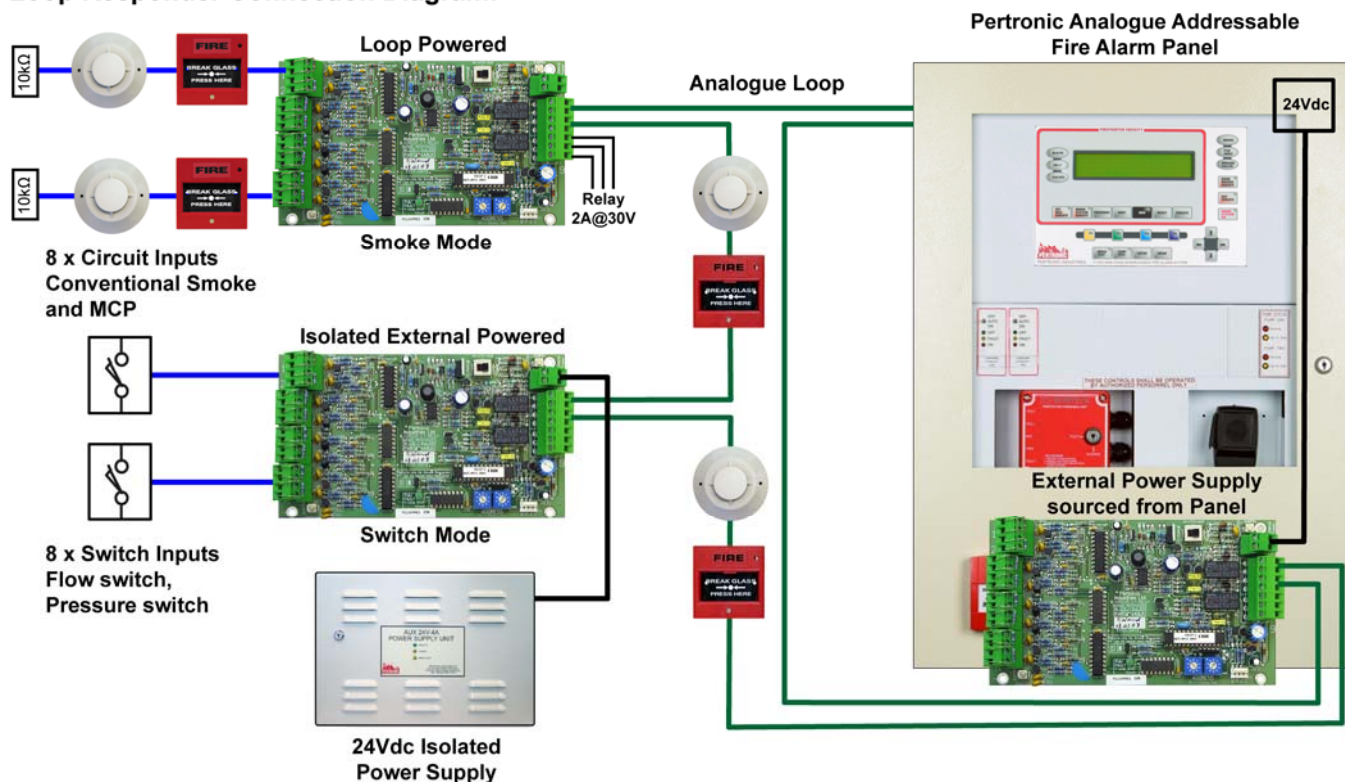
 PCB:	H x W x D mm	96 x 165 x 23
 Cabinet:	H x W x D mm	254 x 310 x 70
	Weight	2.2kg
	Material	1.2mm mild steel, powder coated off-white

 Power Supply:	Quiescent:	24Vdc, 20mA	- with no detectors
	Add:	1mA for each group of 10 detectors (10mA for 100 detectors).	20mA for each circuit in alarm

May be supplied from the analogue loop (350mA maximum) or from a separate isolated PSU

-  **Circuits per Responder:** 8 conventional circuits per responder
-  **Relay:** one non-monitored change-over contact rated at 30Vdc@2A
-  **Maximum Loading:** 40 smoke detectors per circuit plus unlimited Call-Points or switches
-  **Number of Loop Responders:** 11 maximum for a total of 88 Conventional circuits and 11 relay outputs (requires external supply)
-  **Addressing:**
 - Each Loop Responder uses 9 module address spaces
 - the first 8 addresses are allocated to circuits 1 to 8 respectively, the ninth (9th) address space is the output relay
 - the address switches select the base or start address for the Loop Responder, and correspond to the address for Circuit 1

Loop Responder Connection Diagram:



Ordering Information:

Description

F100A Loop Responder board

F100A Loop Responder Case – houses two Loop Responder or Loop Relay boards

Part Number

F100LR

F100LRC

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