

Loop Relay Responder

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ISO 9001: 2000

International Standards
Certifications
QAC/R61/0051

Product Overview:

The **Relay Responder** extends the **Pertronic** Analogue Addressable Automatic Fire Alarm systems by allowing relays to be controlled and operated from an analogue loop.

Features:

- Controls 4 relays, which may be individually selected as monitored or non-monitored.
- The power source for the relay board may be supplied from the analogue addressable loop, with current limitations, or may be supplied from an isolated external power supply unit
- Up to 96 relays (24 x **Relay Responders**) may be connected to each analogue addressable loop.
- Firmware supports both NZS4512:2003 and NZS4512:1997.

Configuration Facilities:

- The panel provides diagnostic and configuration facilities using an LCD display and keypad.



Specifications:

Dimensions:

PCB:	H x W mm	96 x 165
Cabinet:	H x W x D mm	254 x 310 x 70

Power Supply: Quiescent: 24Vdc, 6mA

- The power supply for the **Relay Responder** may be sourced from either the analogue loop or an external, isolated power supply by inserting a 6-position link into the **LOOP** or **EXTERNAL POWER (J1)** connector.
- All relays on a particular board are powered from the selected source.
- The external power supply can vary within the range 5Vdc to 30Vdc.
- The presence of the external supply is monitored.
- The maximum loop current available from the panel for each loop, to supply relays and other loop powered devices, is 350mA.

Loop Supplied:	- each monitored relay 100mA maximum
Externally Supplied:	- each monitored relay 1A maximum

Relay Outputs: 4 relays, each has:

- a clean N/O or N/C (selectable) unmonitored contact, rated 2A @ 24Vdc
- a single N/O monitored contact.

Pulsing Relays: a link (**LK5**) selects whether all the relays on that board are pulsing (LK5 fitted) or non-pulsing.

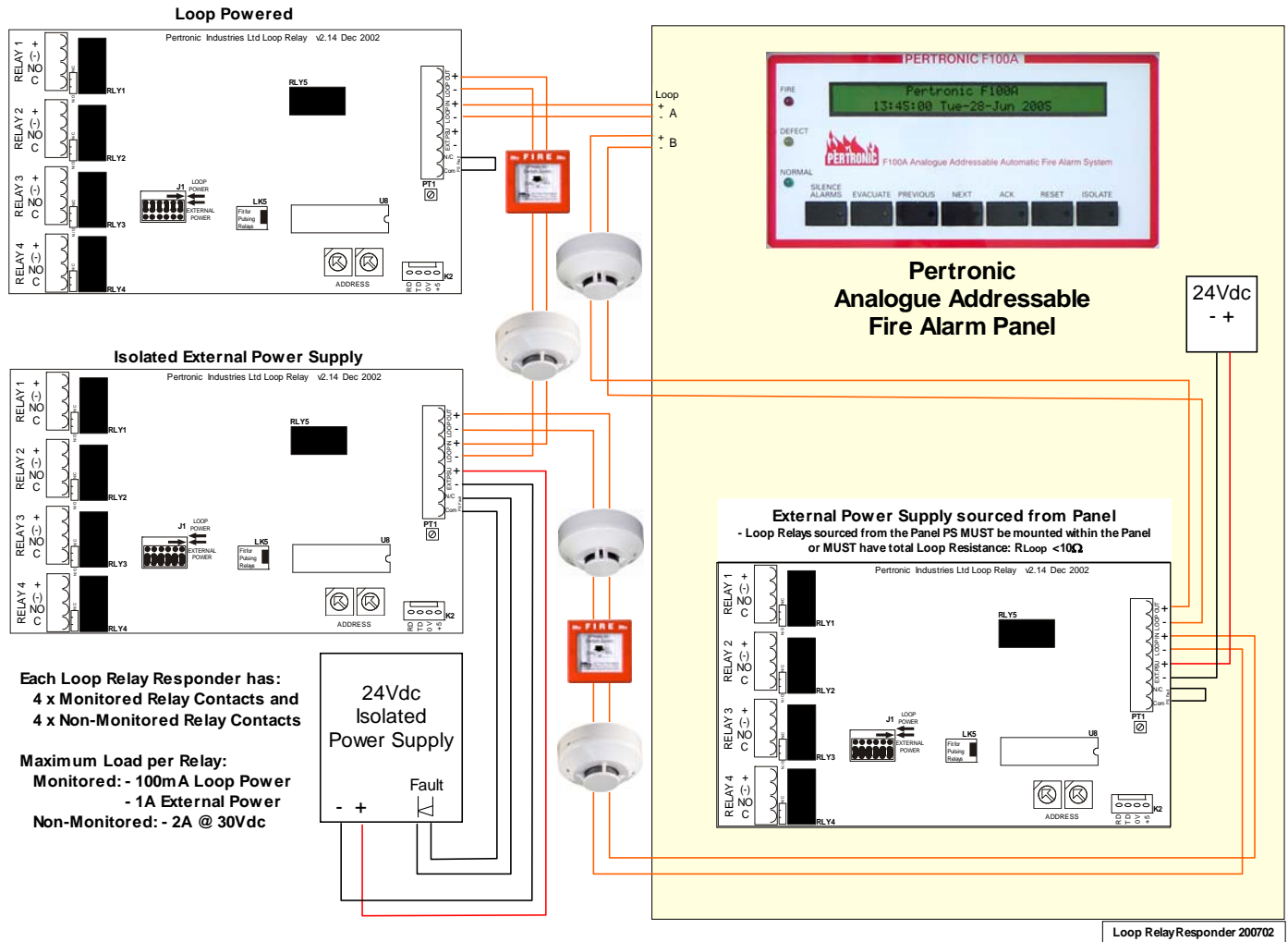
Addressing: each **Relay Responder** uses 4 or 8 address spaces.

- If the 'Relays Pulse' link (LK5) is fitted, 8 address spaces are used, otherwise only 4 are used.
- The addresses are allocated to Relays 1 to 4 respectively. The address switches select the base or start address for the **Relay Responder**, and correspond to the address for Relay 1.

Isolate Relay: isolates the affected section in the event of a short circuit on the analogue loop.

External Fault: an input is provided for external fault detection. This input is normally-closed (N/C), via a clean relay or switch contact, and opens for a fault condition.

F100A Loop Relay Responder Connections:



Product Codes:

Description	Code
Loop Relay Responder board : 4 Relays	F100LRU
F100A Loop Responder Case – houses two Loop Relay or Loop Responder boards	F100LRC

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