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ISO 9001: 2008

International Standards
Certifications
QAC/R64/0012

Product Overview:

The **Loop 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 four (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

Configuration Facilities:

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

Specifications:

Electrical:	Operating Voltage Loop-powered 15 to 32Vdc,		Quiescent Current 6mA at 24Vdc	
Environmental:	Operating Temperature Range 0 to +40 °C		Humidity 10 to 95% RH (non-condensing)	
Mechanical:	Dimensions (H x W x D mm)	Weight	Material	Colour
- PCB	97 x 138 x 23	1.6 kg	1.2mm mild steel	powder coated off-white (other colours optional)
- Cabinet	254 x 305 x 85			

- ▶ 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.

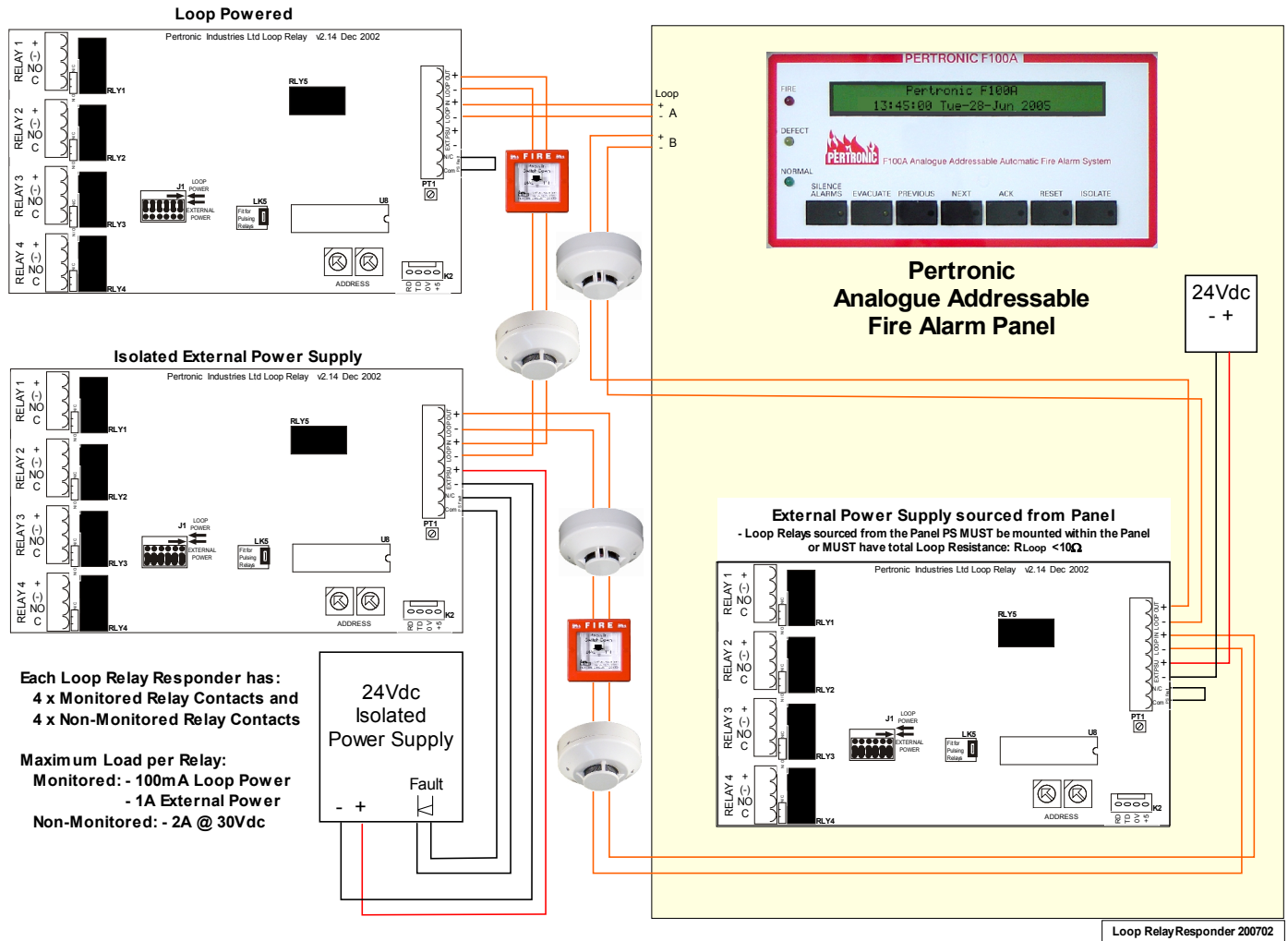
Addressing: each **Relay Responder** uses 4 or 8 address spaces.

- ▶ 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

Loop Relay Responder Connections:



Each Loop Relay Responder has:
4 x Monitored Relay Contacts and
4 x Non-Monitored Relay Contacts

Maximum Load per Relay:
Monitored: - 100mA Loop Power
- 1A External Power
Non-Monitored: - 2A @ 30Vdc

Product Codes:

Code	Description
F100LRU	AA Loop Relay Board 4 Relays
F100LRC	AA Loop Responder Case

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