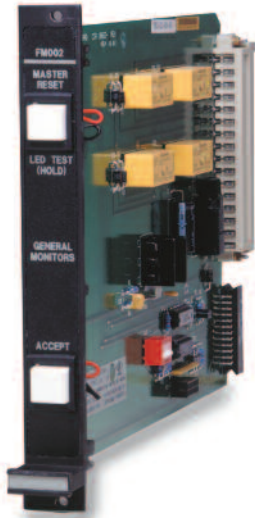**GENERAL MONITORS**

Protection for life.

MODEL FM002A & RK002

Facilities Module

Features
- Master Reset

- Alarm Accept

- Common Relays for A1, A2, Fault and Unaccepted alarm

- Rack LED Test

- Serves up to 100 Zero Two Modules in one system

Benefits
- No need for external switch

- Acknowledges alarm condition in panel without cancelling field alarm

- Facilitates flexible system design

- Single action test of all LED's on up to 100 Zero Two Cards

- Economy of design

Description

The FM002A is a Facilities Module which provides a range of common facilities for all Zero Two Control Modules housed in the Chassis.

The FM002A is plugged into the last slot on the right hand side of a 4, 8 or 16 Channel Chassis. Chassis may be daisy-chained whereby one FM002A will serve up to 100 Zero Two Modules of any combination.

- Common Alarm Outputs for A1, A2, Fault and UA (Unaccepted alarm)

- A Master Reset pushbutton, which resets any latched alarm condition which is no longer valid.

- An Accept pushbutton which acknowledges alarms by de-activating the UA outputs and causing the alarm logic outputs and indicators to revert to a steady 'ON'.

The FM002A can be supplied with or without alarm relays.

A typical sequence of action would be:
If any Control Module in the Chassis goes into an A1 alarm, then a signal will be bussed to the FM002A, activating the A1 alarm and UA outputs (open collector and relays).

If the ACCEPT button is pressed, the UA outputs will be de-activated both on the Zero Two Module and the FM002A. Should the Module go into an A2 Alarm, then a further signal will be sent to the FM002A which will activate the A2 outputs and re-activate the UA. Pressing the ACCEPT button will again de-activate the UA outputs. Any subsequent alarms from the Modules will have the same effect in re-activating the pre-accepted UA outputs.

Pressing the MASTER RESET button will de-activate any latched alarms, provided that the gas concentration is lower than the alarm set point, or in the case of a Fire Signal, if these are no longer activated.
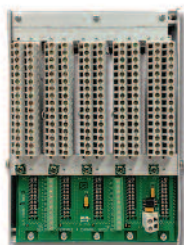
Pressing the MASTER RESET button for a period greater than three seconds will illuminate all displays and LED's on the Modules in the Chassis.

MODEL FM002A & RK002

4 Channel Panel Mounted Rack

Rear view of Chassis showing Buss Board

RK002 Chassis

The Zero Two Series Chassis is available for 4, 8 or 16 Zero Two Modules and one FM002A Facilities Module. The Chassis may be Rack or Panel Mounted the latter being supplied with bezel as illustrated. There is a buss on the Chassis which allows all the Zero Two Modules to be connected to the Facilities Module via common bussed features which are as follows:

- +24 VDC   Positive supply voltage
- Common   System ground
- A1   Alarm level 1 output
- A2   Alarm level 2 output
- Fault   Malfunction
- Accept   Alarm accept
- UA   Alarm unaccepted/ Acknowledged output
- Reset   Master Reset
- Cal   Cal Door open output

Mechanical Specification - RK002

Rack mounted

Height:		7.08" (180 mm)
Width:	4 channel	6.1" (155 mm)
	8 channel	11.1" (257 mm)
	16 channel	18.1" (460 mm)
Depth:		9.625" (244 mm)

Panel mounted

Height:		9.44" (239.8 mm)
Width:	4 channel	7.24" (184 mm)
	8 channel	11.25" (286 mm)
	16 channel	19.25" (489 mm)
Depth:		9.625" (24 mm)

Standard Configuration: RK002-16-1-2

System Specification - FM002A & RK002

Electrical Classification: General purpose, non-hazardous areas

Warranty: Two years

Approvals: FM002A - CSA & CE Marking
RK002 - CE Marking

Environmental Specifications

FM002A & RK002

Operating Temperature Range: 0°F to +150°F
(-19°C to +66°C)

Storage Temperature Range: -40°F to +150°F
(-40°C to +66°C)

Operating Humidity Range: 10 to 95% relative humidity, non-condensing

Specification - FM002A

Relays: DPDT, 3 A, 30 VC, 30 V RMS/42.4V Pk resistive max.

UA & Fault: SPDT, 3 A, 30 VDC, 30 V RMS/42.4 V Pk resistive max.

Open Collectors: A1, A2, Fault & UA with relays
LA1, LA2, 30 VDC @ 50 mA max.
A1, A2, Fault & UA without relays, 30 VDC @ 100 mA max.

Input Power: 20 to 35 VDC @ 300 mA max.

Mechanical Specification - FM002A

Height:	6.825 inches (173 mm)
Width:	0.75 inches (19 mm)
Depth:	9.9 inches (251 mm)
Weight:	8.8 oz (250 grams)

EMC Susceptibility: 10 V/m max.

Standard Configuration: FM002A-1-1

Specification subject to change without notice

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