



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- A Master Reset pushbutton, which resets any latched alarm condition which is no longer valid.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



Rear view of  
Chassis  
showing Buss  
Board

4 Channel Panel  
Mounted Rack



## 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

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

### Panel mounted

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

**Standard Configuration:** RK002-16-1-2

## System Specification - FM002A & RK002

**Electrical Classification:** General purpose, non-hazardous areas

**Warranty:** Two years

**Approvals:** CSA (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:** 5 to 100% Relative Humidity, non-condensing

## Specification - FM002A

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

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

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

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

## Mechanical Specification - FM002A

### Dimensions:

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

### EMC

**Susceptibility:** 10 V/m max.

### Standard

**Configuration:** FM002A-1-1

*Specification subject to change without notice.*

*Represented by:*

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