FA1-v2   FIRE ALARM CONTROL MODULE

This compact, flush mount, FA1 fire alarm control module, provides central monitoring, control & alarm for your engine room fire protection system. In addition to monitoring one circuit of heat and/or smoke detectors in your engine room, it also monitors the switch fitted to the door of the fixed engine room extinguisher, pull wire pre release alarm, and a pressure switch (if fitted) on the fixed fire extinguisher cylinder. If a fire condition is detected, the FA1 provides local audible and visual fire alarm warnings, along with backlit system status display a common remote fire alarm output, plus individual remote alarm outputs for both the fire detector zone alarm and the fire extinguisher pre release alarm.

99mm

54mm

The compact sealed FA1 Fire Alarm Control Module has a dash footprint of 54 x 99 mm, is flush mount,125mm deep. Dash cut out 44x92mm

The Full System Status Display is back illuminated by LED lightbars for instant status recognition.

The five sealed touch switches provide reliable control even in dirty, dusty or wet environments.

There are three Yellow/Green Isol/ Reset switches. One for each adjacent Alarm Zone. When pressed once it isolates the Audible Alarm & illuminates the Amber Isolated indicators for that fire zone. When pressed a second time it resets the zones, Alarm, Fault & Detector latches to return the panel to the Green Normal condition.

The red common Test switch starts a testing sequence which simulates fault 1&2, isolated, normal, alarm 1, alarm 2, alarm 1&2, and dim conditions at the detector inputs to fully test all audible and visual alarms, fault monitoring circuits and remote alarm outputs. Press test switch again to stop testing. In operation, test the system on a regular basis.

The green Dim switch dims the Green Normal status display for night time use.
Alarm and Fault status displays are unaffected by the Dim switch.
On detection of a Fire condition, (operation of a fire detector or opening the extinguisher pull wire release) that zone's Red FIRE indication flashes, accompanied by the local audible Fire Alarm warning plus individual zone remote alarm output and common remote alarm output.
These alarms latch on until manually reset.

If a Fault condition is detected, which could inhibit the fire alarm from operating, the amber Fault indication will illuminate for that zone accompanied by a steady tone audible warning. These fault warnings latch on until manually reset.
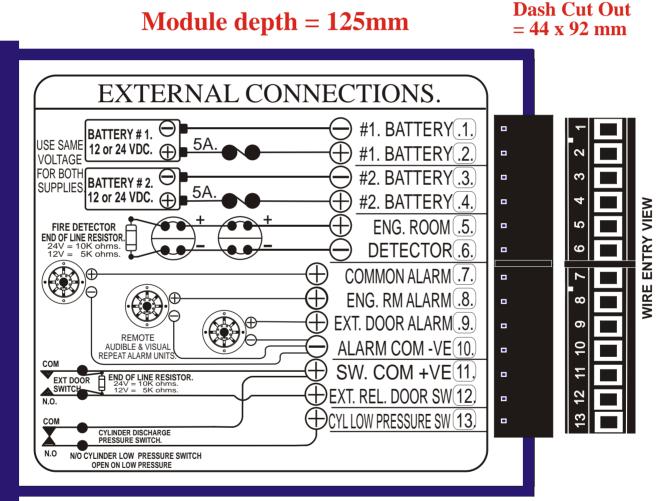A typical Fault condition monitored for, would include a break or high resistance joint in the wiring, a detector out of circuit, low battery voltage, and low pressure in the fixed fire extinguisher cylinder.

To reset the alarm or fault latches, press the appropriate Isol/Reset switch twice,
Once to Isolate the audible alarms & Again to reset the panel to the Green Normal condition
The system should always be left with the green Normal Status display illuminated.

MADE WITH PRIDE IN AUSTRALIA.

FA1-V2 DS001.CDR

FA1-v2 EXTERNAL CONNECTIONS

On the rear of the FA1 Fire Alarm Control Panel, there is a 13 way plug-in terminal for connection of all external wiring circuits -

- Two 12 or 24 VDC power supply inputs, terminals 1&2, & 3&4
- The engine room fire detector circuit, terminals 5&6
- Common remote alarm output circuit, switch +ve terminal 7
- Fire Detector zone alarm output circuit, switch +ve terminal 8
- Fire extinguisher release zone alarm output, switch +ve terminal 9
- Remote alarm output, common -ve terminal 10
- Extinguisher release cover detector switch circuit terminals 11&12
- Extinguisher low pressure monitor circuit terminals 11&13

Module depth = 125mm

Dash Cut Out = 44 x 92 mm

EXTERNAL CONNECTIONS.

USE SAME VOLTAGE FOR BOTH SUPPLIES

BATTERY # 1. 12 or 24 VDC.   5A.

BATTERY # 2. 12 or 24 VDC.   5A.

⊖ #1. BATTERY .1.
⊕ #1. BATTERY .2.
⊖ #2. BATTERY .3.
⊕ #2. BATTERY .4.

FIRE DETECTOR END OF LINE RESISTOR.
24V = 10K ohms.
12V = 5K ohms.

⊕ ENG. ROOM .5.
⊖ DETECTOR .6.

REMOTE AUDIBLE & VISUAL REPEAT ALARM UNITS.

⊕ COMMON ALARM .7.
⊕ ENG. RM ALARM .8.
⊕ EXT. DOOR ALARM .9.
⊖ ALARM COM -VE 10.

COM
EXT DOOR SWITCH
N.O.

END OF LINE RESISTOR.
24V = 10K ohms.
12V = 5K ohms.

⊕ SW. COM +VE 11.
⊕ EXT. REL. DOOR SW 12.
⊕ CYL LOW PRESSURE SW 13.

COM

CYLINDER DISCHARGE PRESSURE SWITCH.

N.O   **N/O CYLINDER LOW PRESSURE SWITCH OPEN ON LOW PRESSURE**

WIRE ENTRY VIEW

SIDE VIEW