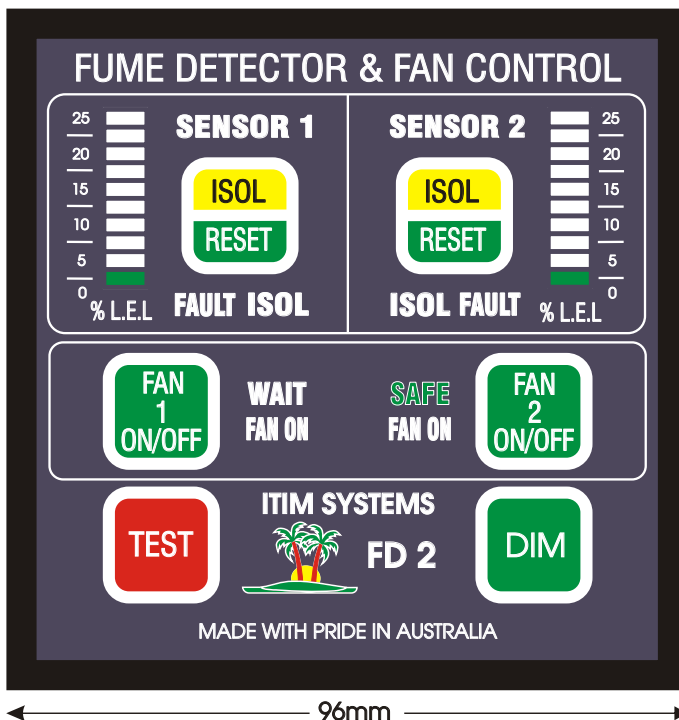


ACN No 010 471 897

## FD 2 TWO CIRCUIT FUME DETECTION, ALARM & FAN CONTROLLER

**SYSTEM DESCRIPTION:** The ITIM Systems **FD-2** is a fully monitored Two Circuit Fume Detection, Alarm and Fan Control System with remote On/Off Fan control, bargraph display of % LEL, with audible and visual alarms and automatic blower fan start when fumes are detected. Housed in a compact, flush mounted, display Module, it features sealed touch switch controls for greater reliability & LED backlit system status display for instantaneous status recognition.



**OPERATION FD-2** When Power is first switched On to the FD-2 Fume Detection & alarm system, there will be a short **WAIT** delay while the sensors warm-up to operating temperature. The **SAFE** LED will illuminate when the system is operational, and detects a safe fume level at both sensors. Pressing either FAN On/Off switch will turn that Blower Fan On or Off manually. If Fumes are detected that blower fan will turn on automatically to clear the fumes. **FAN ON** LEDs illuminate.

If fumes are detected, **(SENSOR 1)** or **(SENSOR 2)** status will Flash to identify its source. The audible and visual alarms will latch On & that Blower Fan will be latched On.

The LED bargraphs show the actual Fume % LEL at each sensor.

**ISOL** To acknowledge & silence the alarm, press the ISOL/RESET switch once, **ISOL** LED illuminates. To reset the alarm latches and return system to normal, press the ISOL/RESET switch again.

**FAULT** The fume sensing circuits are both continuously monitored for faults. If a fault develops in a fume sensor, or the sensor wiring, the appropriate **FAULT** status will illuminate, accompanied by a steady fault tone.

**TEST** Pressing the TEST switch starts a test sequence to test all alarm and fault monitoring functions, including alarm latches and fan On latches plus isolate and reset functions.

**FUME SENSOR ASSEMBLIES.** In a petrol fume type installation with heavier than air fumes, sensors should be mounted at low level near risk area ie near engines and fuel tanks. Do not mount in wet area of bilge as water will damage sensor. If used to detect fumes of lighter-than-air gases such as Methane or battery fumes then the Fume Sensor assemblies should be mounted at a high level where fumes could collect.

The system should be left in the **SAFE** operating condition. Fans switched manually as required. Manufactured with pride in Australia in accordance with AG 601-1998 appendix K.

# FD-2 EXTERNAL CONNECTIONS

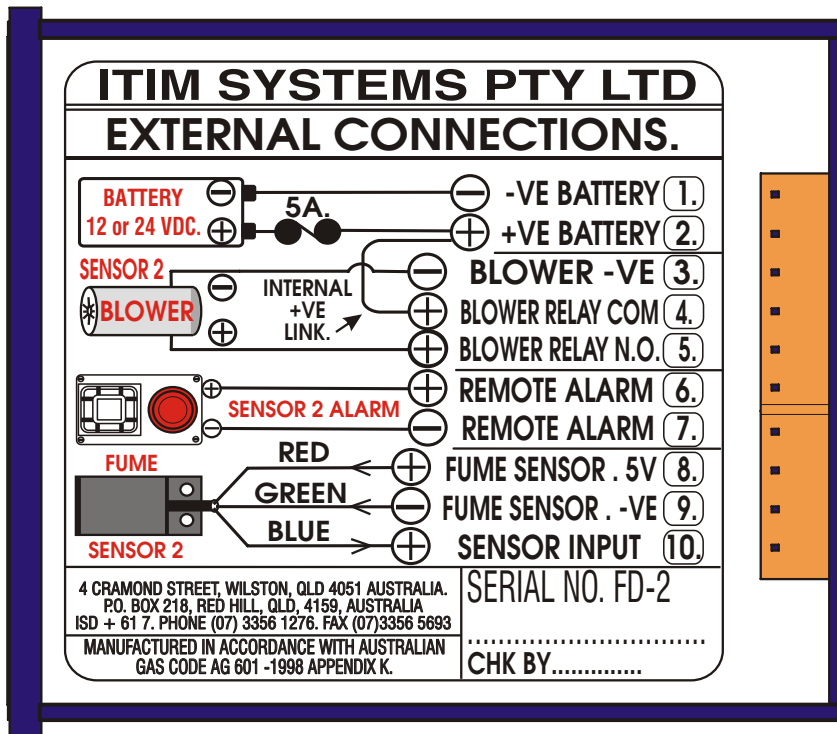
On the rear of the FD-2 fume detection alarm & fan control module there are 2x 10 way plug-in terminals for connection of all external wiring circuits.

Terminal 1 & 2 12 or 24 volt DC power supply  
 Terminal 3 & 5 Sensor 2 blower fan relay  
 Terminal 6 & 7 Sensor 2 remote alarm output  
 Terminal 8, 9 & 10 Sensor 2 gas sensor

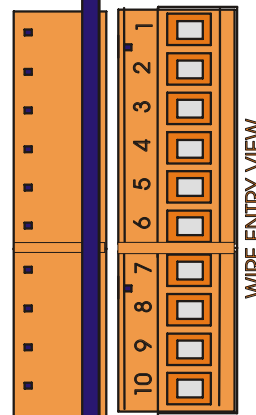
Terminal A.

Terminal 11 & 12 12 or 24 volt DC power supply  
 Terminal 13 & 15 Sensor 1 blower fan relay  
 Terminal 16 & 17 Sensor 1 remote alarm output  
 Terminal 18, 19 & 20 Sensor 1 gas sensor

Terminal B.



Dash Cut Out  
 = 91 x 91 mm  
 depth = 100mm

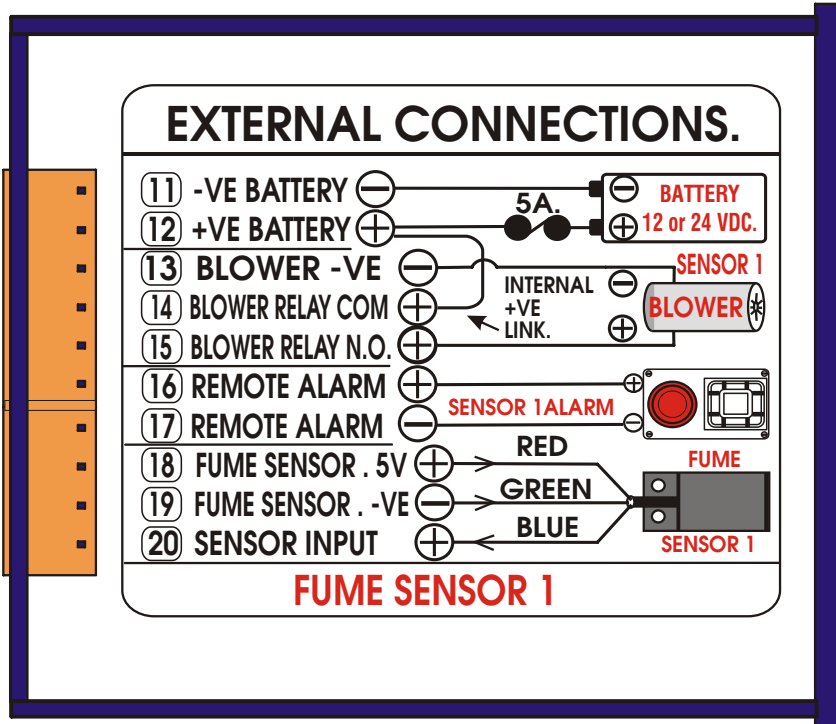
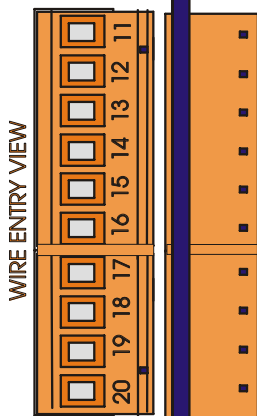


Terminal A.

SIDE VIEWS

**NOTE.**  
 IF A SINGLE DC SUPPLY IS USED,  
 i.e. BOTH BLOWERS  
 ON A SINGLE FUSE.

Terminal B.



LINK TERM # 1.  
 TO TERM # 11.  
 &  
 LINK TERM # 2.  
 TO TERM # 12.

IF COMMON  
 REPEAT ALARM  
 REQUIRED.

LINK TERM # 6.  
 TO TERM # 16.

AVAILABLE FROM

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