ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

FMC-R2 / FMC-R4

FMC-Series AC / DC Fan Monitoring Controllers



Overview

The FMC-R2 and FMC-R4 are a range of micro-controller based AC and DC Fan monitoring Controllers with digital temperature indication and signal retransmission, offered in a highly compact, rugged and reliable execution. The instrument has three keys on the front panel, with which the operator can set the parameters and configure the instrument as desired.

The instrument has an in-built precision temperature sensor which monitors the ambient temperature and displays the same on a three-digit seven-segment digital display on the front panel. The display can indicate any scale range between 000 to 99.9 units (temperature) value in degree Celsius (°C). Fan control settings are configurable. In case of power failure, the set points are retained in memory.

The Fan monitoring and Control modules are not designed for any specific make of Fans, and as such, the customer can use any Fan make of his choice. The Fan Monitoring unit dynamically acquires the fan current data while monitoring the fans.

The Fan Control module provides powered output contacts for wiring the 2/4 AC or DC Fans independently through internal control relays. The instrument also senses the normal healthy current being drawn by each Fan and provides short-circuit and open-circuit protection by cutting off the supply to the corresponding Fan in case any abnormality is detected. Open Circuit and Short circuit conditions are monitored continuously and are digitally configurable.

The instrument has an internal SMPS power supply and operates on universal AC power of 90 to 270 VAC, 50/60 Hz or optional DC power 24 VDC or 48 VDC.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

Specifications

Model	FMC-R2 (two fans) FMC-R4 (four fans)
Type	Microcontroller based control module for switching and monitoring of cooling fans, based on ambient temperature.
No of Fans	2 or 4.
Temperature Display	Three digit 0.4” inch seven-segment red / white LED displays.
Temp Range	00.0 to 99.9 degrees Celcius.
Keys	3 nos.
Input	Inbuilt electronic temperature sensor.
Control Outputs	**FMC-R2** : Four built-in Relays >> - 2 Relays with powered contacts for Fans 1&2. - 2 Alarm Relays for Temp and Fan-fail alarms. **FMC-R4** : Six built-in Relays >> - 4 Relays with powered contacts for Fans 1-4. - 2 Alarm Relays for Temp and Fan-fail alarms.
Contact Rating	10 Ampere @ 230 VAC.
Indications	Bicolor LEDs for Fan starters
Retransmission	4 to 20 mA DC analog current output proportional to temperature.
Load Capacity	600 Ohms.
Power Supply	90-270 VAC, 50/60 Hz (optionally 24 VDC / 48 VDC).
Protections	Short-circuit and over-voltage protection.
Dimensions	**FMC-R2** : 75 x 55 x 110 mm [H x W x D] **FMC-R4** : 75 x 100 x 110 mm [H x W x D].
Enclosure	Polycarbonate.

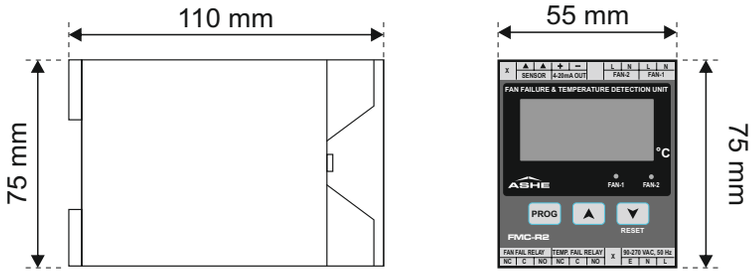
Features

- Monitoring of Fan faults in dynamic operation
- Microcontroller based high speed fault monitoring
- In-built precision temperature sensor
- Simple low cost configuration for Racks / Panels
- Ambient Temperature monitoring and indication
- Three digit seven-segment display for temperature
- Auto Fan-Current monitoring
- AC or DC version models for AC/DC Fan monitoring
- Slim and Compact execution
- LED indications of alarm conditions
- Easy and quick installation in panel
- Monitoring multiple Fans for failure
- Potential free Relay contacts for external hooter connection
- Two-year Performance Warranty
- Proven track record of successful site installations

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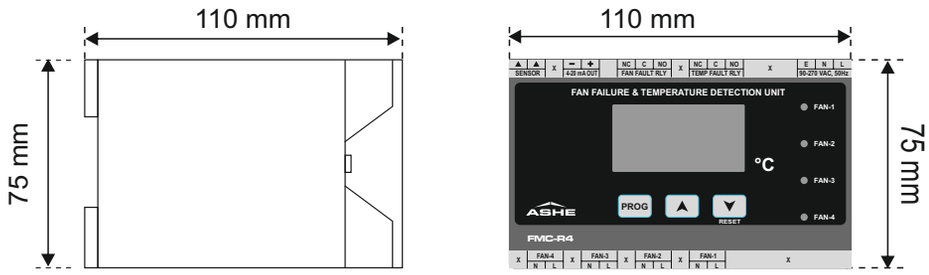
Dimensional Diagram

FMC-R2



SIDE VIEW FRONT VIEW

FMC-R4



SIDE VIEW FRONT VIEW

How To Order

	FAN MONITORING CONTROLLER	**FMC**						
	Configuration and add-on options							
1	**NUMBER OF FANS**							
▸	Two		R2					
▸	Four		R4					
2	**FAN POWER SUPPLY**							
▸	230 V AC, 50Hz			A1				
▸	110 V AC, 50Hz			A2				
▸	24 V DC			D1				
▸	48 V DC			D2				
3	**LOGIC**							
▸	Temperature based switching				T			
▸	MIMIC				J			
▸	Fan Redundancy				I			
▸	No Logic				N			
3	**MODBUS**							
▸	Modbus required						M	
▸	Modbus not required						N	

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

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