Rack Monitor Pro

Fan, Temperature, Smoke/Fire and Intrusion Monitoring for Racks and Cabinet Systems

MicroLOGIX

This Advanced Rack Monitor enables racks to communicate it's health status of Fans, Critical Temperature of sub-systems through either MODBUS or Ethernet Port to central server. Control settings can either be set locally using the keypad or remotely using MODBUS/Ethernet. A software utility provided to set and manage this controller. Optional SNMP protocol over ethernet can be provided for centralized control and management when multiple racks are to be monitored simultaneously.

Dual Supply voltage of 12VDC/230VAC offers flexibility. Also AC/DC Fans of 24VDC/48VDC or 230VAC ratings can be easily connected and monitored. .

Smoke Detectors and Door Limit Switches can provide additional protections to the Rack/Cabinet.

Key Features

- 6 Fans control with 6 Temperature sensor.
- 6 Relay outputs with common Fault Relay.
- RS485 MODBUS for communication optional remote monitoring and management .
- Ethernet port for remote monitoring and management.
- 12V DC or 230V AC Supply
- In-built Display and Keypad
- Local Display of Temperature and Fan status
- Provision for Smoke Detector/Intrusion Detector and Door open sensing

Power Supply

- 12VDC Model
- 230VAC Model

} To be specified while ordering

User Interface

- Up, Down, Enter, Menu
- 3 Digits 7 Segment Display

Specification

Inputs

- Temperature Sensors (NTC 10K) - 6Nos
- AC Fan ON/OFF Sensing Using current Transformer-6Nos
- 24V / 48V DC Fan ON/OFF & Speed Sensing - 6Nos
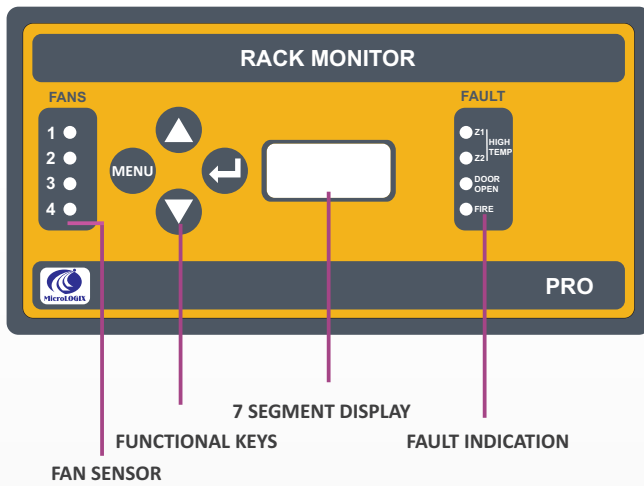- Door Lock Input
- Smoke Sensing

Outputs

- Relay Outputs for fan ON/OFF - 6Nos
- Door Relay output for Door Fault
- Buzzer / Hooter Relay output for Smoke Alarm

LED Indications

- Fan Fault
  - Inlet   - On & Fault
  - Outlet - On & Fault

- Temperature Faults
  - Inlet, Outlet, Zone1, Zone2

Front Panel

RACK MONITOR

FANS
1 2 3 4

MENU

FAULT
Z1 | HIGH TEMP
Z2
DOOR OPEN
FIRE

MicroLOGIX

PRO

FAN SENSOR
FUNCTIONAL KEYS
7 SEGMENT DISPLAY
FAULT INDICATION

Mechanical

Dimension	160mm(W) x 75.6mm(H) x 133.9mm(D)
Weight	850gm
Construction	Aluminium Enclosure
Operating Temperature	$-0°$ C to $55°$ C
Relative Humidity	85% Rh with No Condensation

Wiring Diagram

DB9 view shown from rear side(Solder Side)

J1

Temperature Sensor

DB9 Male Connector Pinout Details

1	Outlet Fan Fault LED
2	Outlet Fan OK LED
3	Inlet Fan Fault LED
4	Inlet Fan OK LED
5	Zone2 Temp Fault LED
6	Zone1 Temp Fault LED
7	Outlet Temp Fault LED
8	Inlet Temp Fault LED
9	Common Anode of all LEDs

Pressure Sensor
+5V
OUTPUT
GND

Pressure Sensor
GND
OUTPUT
+5V

AIR
IN   OUT

T6 T5 T4 T3 T2 T1

J3
3 2 1

FAN6   FAN5   FAN4
1 2   1 2   1 2

230V AC

Neutral

RS485B
RS485A

12V INPUT
+ - NC

FAN1
1 2

FAN2
1 2

FAN3
1 2

BUZZER
2 1
+ve

12V DC
GND
230V AC
Neutral

12V

-ve

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