MicroRack Application

Modular, Multi-Channel Monitoring System

Gastech Australia's GTA-4100 MicroRack has been developed to operate in conjunction with Gas, Fire & Manual Call Point devices & offers a comprehensive Fire & Gas Monitoring System solution.
A common Application for this type of system is used in Hotels where Cellar Monitoring of CO_2 concentration from Keg & Post Mix installations is required to provide early warning of asphyxiate hazards.
The versatility of the 4100 allows the same MicroRack controller to also accept inputs from smoke & heat detectors & also manual call points.
The GTA 4100 MicroRack offers a reliable & economical solution to Fire & Gas Alarm system applications

CO_2

The EE80 series combines CO2, relative humidity (RH) and temperature (T) measurement in one housing. The snap-in mounting concept stands for easy installation and replacement within seconds.
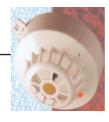EE80 series set new standards in CO2 measurements for HVAC. The operation is based on the infrared principle. A patented auto-calibration procedure compensates for the aging of the infrared source and ensures outstanding long service life.

Smoke

Air in the dual sensing chambers is irradiated to produce ions that travel to the positive and negative electrodes, creating a current flow. As smoke enters the outer chamber the flow drops and voltage increases. The voltage is measured and an analogue signal is converted to digital for transmission to control equipment. Pre-alarm or fire alarm is instigated by the micro-processor when smoke density increases to pre-set levels.

Temperature Monitor

The temperature monitor has a low air resistant case for good contact between sensing thermistor and surrounding air. Temperature is measured by a single thermistor network which gives a voltage output, proportional to the external air temperature. The signal is processed and transmitted to control equipment.

Manual Call point

When operated, the manual call point provides a simple digital signal for alarm activation.

GASTECH
AUSTRALIA

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Range	Reads %LEL, ppm, % Vol, LELm, Smoke, Heat, and Fire
Inputs	24 VDC 4-20mA inputs; Source type 2 or 3 wire 3 wire catalytic bridge 0-1VDC, 0-5VDC 0-24VDC & Digital
Detector Heads	For use with combustible, oxygen & toxic gas detectors, Flame detectors, Digital inputs and many more.
Analog Outputs	4-20mA source for each channel.
Relay Outputs	Common low alarm, high alarm and fault. Standard relay module, individual relays for each alarm per channel.
Power Consumption	500mA maximum per channel.
Low Alarms	Independently adjustable from 'Off' to full scale. Audible/visual indication. Can be acknowledged. Can be activated on a rising/falling level.
High Alarms	Independently adjustable from 'Off' to full scale. Audible/visual indication. Can be acknowledged. Can be activated on a rising/falling level.
Operating Temperature	-20°C to +60°C
Operating Humidity	0 to 95% non condensing
Operating voltage	18 - 30VDC, 24VDC Nominal
Power Supply	Inbuilt switch mode, accepts 110-240AC Input
Overall Dimensions	270mm W x 350mm H x 209mm D
Mounting Options	Standard powder coated Steel wall-mount cabinet with hinged shatter proof glass front door
Area Classification	General purpose
Warranty	12 Months (Standard)