FMC-40

1-4 Channel Gas Alarm

The FMC-40 has been designed to operate in the full range of environments from commercial premises through to heavy industrial applications which may require hazardous area sensing.

The FMC-40 system operates on single channels plug and play cards.

Key Features

- Versatile System Configuration
- Flammable, Oxygen and Toxic Gases
- 1 to 4 sensors
- Plug in sensor channel cards
- Two alarm stages
- Selectable alarm relays
- Analogue 4-20mA output
- Delay to alarm option

Applications

- Steel mills
- Waste water
- LGP storage
- Paint spay booths
- Chemical plants
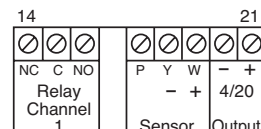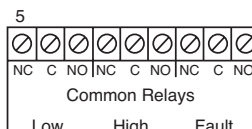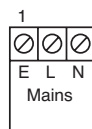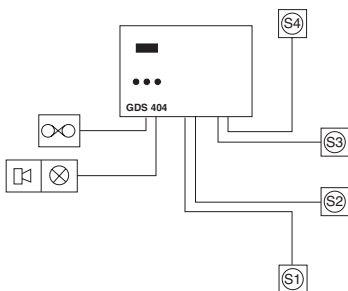- Chemical storage
- Aircraft hangars
- Boiler rooms

Specifications[*]

Sensor points	1 ~ 4
Measurements	Combustible Gas - L.E.L., % vol, ppm
	Toxic Gas - ppm, % vol
	Oxygen - % vol Depletion/Enrichment
	Any 4~20mA input signal
Power supply	230/115v AC or 24v DC and specials
Power Consumption	12 watts - full alarm
Indicators	Power - Green L.E.D
	Mains Fail - power indicator change green to amber
	Alarms - Red L.E.D.s
	Fault - Amber L.E.D
	Digital Display - $3^{1}/2$ Digit - gas readout
	Sensor channel selection indicator - Amber L.E.D
	System test - Alarm L.E.D.s flashing
	Alarm Relay Inhibit - Fault L.E.D on
Outputs	High Alarm Relay - Common D.P.C.O
	Normally energised or de-energised, latched or unlatched
	Low Alarm Relay - Common D.P.C.O
	Normally energised or de-energised, latched or unlatched
	Fault Alarm Relay - Common S.P.C.O
	Normally energised or de-energised
	Channel Relays - 1 per channel high or low selectable S.P.C.O
	Normally energised or de-energised, latched or unlatched
	General Alarm Relay - resetable S.P.C.O
	All contacts rated 5A-230vAC
	Analogue 4 ~ 20mA output per channel
	Output 24vDC @ 100mA max - auxiliary equipment (non inductive)
Audible Alarm	Permanent mute option.
	Lo, Hi, Fault alarms
Alarm Settings	Digital Setting (fully adjustable between zero and fullscale)
	Delay to alarm T1 - 10 seconds, T2 - 30 seconds,
	T1 + T2 - 10 minutes
Sensor inputs	Bridge type 3 wire mV input
	4~20mA (electrochemical/infrared)
Sensor cable	3 core 1.5mm² screened < 1.5km
Miscellaneous	EMC approvals EN50270 Marine EN60945
	Enclosure - cable entry - bottom/rear
	Operating temperature -10 to +50°C
	Relative Humidity 0 - 90%
	Protection IP52 - option IP65
	Dimensions 310W x 265H x 75Dmm / 12.2W x 10.4H x 3.0D"
	Weight 3.6kg / 7.94 lbs.
	Optional backup battery
	Field terminals - 2.5mm quick release
	System/lamp test
	Remote Accept/Reset
	Alarm isolate during service - inhibit

*Specifications are subject to change

Configuration options

- Controller module F05-0021-000
- Controller IP 65 option F05-0022-000
- Alarm card for 4-20mA transmitters F05-3021-000
- Battery back up 1 hour F05-3022-000

The FMC-40 includes

- FMC-40
- Channel cards as specified
- Instruction manual

Field terminals

Repeated for each channel 1~4
terminals 14-21