



# FMC-40

1 to 4 Channel Gas Alarm



The FMC-40 is a controller for up to 4 fixed gas detection sensors. Custom configurable with up to 4 channel cards, the FMC-40 provides accurate and reliable readings from a variety of fixed gas detection sensors including O<sub>2</sub>, H<sub>2</sub>S, CO, SO<sub>2</sub>, LEL and more. Integrated Low, High, and Fault dry contact relays provide flexibility in configuring an alarm and safety system. The FMC-40 is easy to configure and provides a real-time display of the gas sensor readings on the integrated LCD screen.

- **Dedicated channel card for each detector (up to 4 total)**
- **Integrated low, high, and fault dry-contact relays**
- **Real-time readings via LCD display**
- **Easy to configure and install**

## KEY FEATURES

### Versatile

- Flexible System Configuration
- Detects flammable, oxygen or toxic gases
- 1 to 4 sensors
- Plug in sensor channel cards
- Two alarm stages
- Selectable alarm relays
- 4-20mA analog output
- Delay to alarm options

## APPLICATIONS

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

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## 1 to 4 Channel Gas Alarm

### SPECIFICATIONS

Sensor Points	1 to 4
Measurements	Combustible Gas: LEL, % 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 LED Mains Fail: Power indicator change green to amber Alarms: Red LEDs Fault: Amber LED Digital Display: 3½ Digit - gas readout Sensor channel selection indicator: Amber LED System test: Alarm LEDs flashing Alarm Relay Inhibit: Fault LED. on
Outputs	High Alarm Relay: Common DPCO Normally energized or de-energized, latched or unlatched Low Alarm Relay: Common DPCO Normally energized or de-energized, latched or unlatched Fault Alarm Relay: Common SPCO Normally energized or de-energized Channel Relays: 1 per channel high or low selectable SPCO Normally energized or de-energized, latched or unlatched General Alarm Relay: Resettable SPCO All contacts rated 5A-230V AC Analog 4 - 20mA output per channel Output 24V DC @ 100mA max - auxiliary equipment (non-inductive)
Audible Alarm	Permanent mute option Low, High, Fault alarms
Alarm Settings	Digital Setting (fully adjustable between zero and full scale) 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 1.5mm <sup>2</sup> shielded, < 1.5km
Miscellaneous	EMC approvals: EN50270 Marine EN60945 Enclosure - cable entry: bottom/rear Operating temperature: 14° F to 122° F (-10° C to +50° C) Relative Humidity: 0 to 90% Protection: IP-52 - option IP-65 Dimensions: 12.2" W x 10.4" H x 3.0" D (310 x 265 x 75mm) Weight: 7.94 lbs. (3.6kg) Optional backup battery Field terminals: 2.5mm quick release System/lamp test Remote Accept/Reset Alarm isolate during service - inhibit

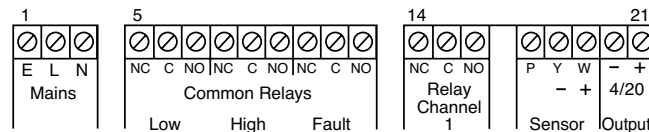
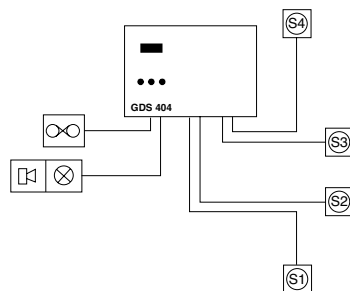
Specifications are subject to change

### 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



### Field Terminals



Repeated for each channel 1-4 terminals 14-21

[www.raesystems.com](http://www.raesystems.com)



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