



FMC-60

Multi Channel Controller



The FMC-60 is a controller for up to 64 addressable and 16 direct 4-20mA gas detection sensors. With the capability to control up to 80 detectors, the FMC-60 provides accurate and reliable readings from a variety of fixed gas-detection sensors, including O₂, H₂S, CO, SO₂, LEL, VOC and more. 8 internal dry-contact relays provide flexibility in configuring an alarm and safety system. The FMC-60 is easy to configure and provides a real-time display of the gas sensor readings on the integrated LCD screen.

- Monitor up to 64 addressable and 16 direct sensors
- 4-20mA and ModBus compatible
- 8 configurable dry-contact relays
- Real-time readings via LCD display
- System configuration via PC or display panel

KEY FEATURES

Versatile

- Up to 64 addressable sensors (4 wire)
- 16 direct 4-20mA sensors (2/3 wire)
- Parameter set up via PC or front panel
- Onscreen text description of sensor locations
- 3 alarm levels
- 8 configurable dry-contact relays with an option for 64 additional relays
- Internal datalogging with 99 events
- Continuous datalogging via PC option

Easy to Use

- Automatic safety check diagnostics/ system surveillance
- Low-cost installation

Expandable

- Repeater panel—optional
- 64 Additional relays—optional
- Addressable relay board—optional

APPLICATIONS

- Waste water
- LGP storage
- Chemical plants
- Chemical storage
- Steel mills
- Petrochemical industry

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SPECIFICATIONS

Sensor Points	1 to 64 addressable – Can bus – and/or 16 direct 4-20mA Combi Plus - 128 addressable
Measurements	Combustible Gas: LEL, % Vol, ppm Toxic Gas: ppm, % Vol Oxygen: % Vol Depletion/Enrichment Any 4-20mA input signal
Indicators Control Unit	Dot matrix LCD 4 line 40 character indicating sensor location, gas type, concentration (rising or falling), alarm status, system fault, line fault, sensor fault, inhibit, real-time clock, event memory. Red LED: Global alarm, Amber LED: Global fault, Amber LED: Inhibit
Outputs	8 user selectable zone/voting: time ON/OFF delay relays NE/ND option Relay contacts: 4 DPCO / 4 SPCO rated @ 5A-230V AC Factory set: 1 common low alarm DPCO 1 common high alarm DPCO 1 common overrange SPCO 1 common fault alarm SPCO General alarm relay: resettable SPCO - for audible alarms, etc. Optional: 64 relays - programmable with pattern/event Optional: Addressable 4-way relay unit 2 channel 4-20mA: Assignable to any sensor RS232 data log: Event log ModBus: RS485 x2
Audible Alarm	Alarm/Fault - permanent mute option
Power	230/115V AC or 24V DC Control unit: 7.5w quiescent, 17w full alarm Sensor: 2.5w Internal power supply: 20 sensors max - 21+ sensors - PS10 Power Pack
Sensor Cable Addressable	Main network: 4-core (2 power - 2 comms) 2/3 core 1.5mm ² shielded, max length 1km
Miscellaneous	Enclosure cable entry: bottom, rear, top Remote reset/mute Front panel button – key lock Repeater panel 16 way 4-20mA catalytic converter panel LED indication: Con fail, ModBus fail, MPU fail Password protection: user mode/engineers mode LCD and LED dimming
Environmental	Control unit: IP-52 Operating temperature: 14° F to 122° F (-10° C to + 50° C)
Dimensions	Combi panel: 12.4" W x 10.4" H x 3.7" D (315mm x 265mm x 95mm) Auxiliary power pack: 12.4" W x 10.4" H x 3.7" D (315mm x 265mm x 95mm)
Weight	10.91 lbs (4.95kg)

Specifications are subject to change

CONFIGURATION OPTIONS

- Multi controller standard
IP 52 F05-0001-000
- Multi controller, IP-65 option
F05-0002-000
- Auxiliary power pack for 21 units or more
F05-3001-000
- Multi controller 19" rack 3U option
F05-0003-000
- Multi controller relay panel in separate enclosure
F05-3002-000

