

FMC-60

Multi channel controller

The FMC-60 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-60 system operates on a 4 core (addressable) or 2/3 core (direct) cable network and has the capacity to monitor up to 64 addressable and 16 direct sensors of various gas types.



Operation

Each gas sensor continuously monitors the atmosphere, reporting any hazardous conditions to the control unit, for display by the alpha numeric screen indicating the reporting sensor, gas type, concentration and alarm status. Alarm levels that are exceeded will automatically activate a variety of signal outputs including analogue/digital data and user selectable relays.

Key Features

- Up to 64 addressable sensors
- 1-16 direct 4~20mA sensors - 2/3 wire
- Either or both types of sensors
- Single 4 core sensor network (addressable)
- Parameter set up via pc or front panel
- On screen text description of sensor locations
- 3 alarm levels
- Event - data logging - internal 99 event
- Low cost installation
- Repeater panel - option
- 64 Additional relays - option
- Continuous data logging via pc - option
- Addressable relay board - option
- One man calibration utilising peak readings
- Automatic safety check diagnostics/system surveillance
- Combi Plus, up to 128 addressable sensors per panel

www.raesystems.com

RAE Systems Inc.
3775 North First Street,
San Jose, CA • 95134 • USA
raesales@raesystems.com

USA/Canada 1-877-723-2878
Europe/Russia +45 8652 5155
Middle East +971 4 887 5562
China +86 10 5885 8788
Asia +852 2669 0828

Toll-Free 877-723-2878



Specifications*

Sensor points	1-64 addressable – Can bus – and/or 16 direct 4~20mA Combi Plus - 128 addressable
Measurements	Combustible Gas - L.E.L., % 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 D.P.C.O / 4 S.P.C.O. rated @ 5A-230v AC Factory set - 1 common low alarm D.P.C.O 1 common high alarm D.P.C.O 1 common overrange S.P.C.O 1 common fault alarm S.P.C.O General alarm relay - resettable S.P.C.O. - for sounders 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 Power	Alarm/Fault - permanent mute option 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 screened 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 - IP52 Operating temperature -10 + 50°C
Dimensions	315W x 265H x 95D / 12.4W x 10.4H x 3.7D" - Combi panel 315W x 265H x 95D / 12.4W x 10.4H x 3.7D" - Auxiliary power pack
Weight	4.95Kg / 10.91 lbs.

*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 unit or more F05-3001-000
- Multi controller 19" rack 3U option F05-0003-000
- Multi controller Relay panel in separate enclosure F05-3002-000



The FMC-60 includes

- FMC-60
- Instruction manual

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