

# 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

## Specifications\*

<b>Sensor points</b>	1-64 addressable – Can bus – and/or 16 direct 4~20mA Combi Plus - 128 addressable
<b>Measurements</b>	Combustible Gas - L.E.L., % vol, ppm Toxic Gas - ppm, % vol Oxygen - % vol Depletion/Enrichment Any 4~20mA input signal
<b>Indicators control unit</b>	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
<b>Outputs</b>	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 - resetable 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
<b>Audible Alarm</b>	Alarm/Fault - permanent mute option
<b>Power</b>	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
<b>Sensor cable Addressable</b>	Main network - 4 core (2 power - 2 comms) 2/3 core 1.5mm <sup>2</sup> screened max length 1km
<b>Miscellaneous</b>	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
<b>Environmental</b>	Control unit - IP52 Operating temperature -10 + 50°C
<b>Dimensions</b>	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
<b>Weight</b>	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