



FMC-64

64 Channel Fixed Systems Controller



FMC-64 in full width 19" rack mount

The FMC-64 fixed systems controller provides simultaneous display and alarm functions for up to 64 input variables with operations set for 16, 32, 48 or 64 channels and I/O modules arranged in groups of 16 channels. The easy-to-configure, user-friendly controller is ideal for centralizing display and alarm functions in critical multi-point monitoring applications.

KEY FEATURES

- 16, 32, 48, and 64 channel display modes accept inputs from many sensor types and signal ranges.
- Ethernet with Modbus TCP Master/Slave and web server for configuration and monitoring.
- RS-485 serial ports allow simultaneous Modbus Master/Slave operation. Two standard ports and two optional isolated ports.
- Three independent alarm levels per channel. "Relay Acknowledge" feature allows silencing of external audible devices during alarm conditions.
- Five standard SPDT 5-Amp alarm relays for HORN and FAULT, plus three programmable alarm relays.
- Power supply options: 150 or 600 Watts.

- Magnetic keypad is standard for non-intrusive operation in potentially hazardous locations.
- Enclosures include wall mount NEMA 4X Non-Metallic 316 SS, NEMA 7 and Rack/Panel Mount

APPLICATIONS

- Petrochemical industry
- Chemical storage
- Water and Wastewater
- LPG storage
- Paint booths
- Steel mills

- **Color graphic LCD display provides clear presentation of sensor data and alert notification**
- **Flexible data input and output options**
- **Authorization Mode allows locking of critical configuration variables**
- **Datalogging onto SD card for easy record keeping**



The FMC-64 is used to control a fixed gas detection system with up to 64 detection points

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SPECIFICATIONS¹

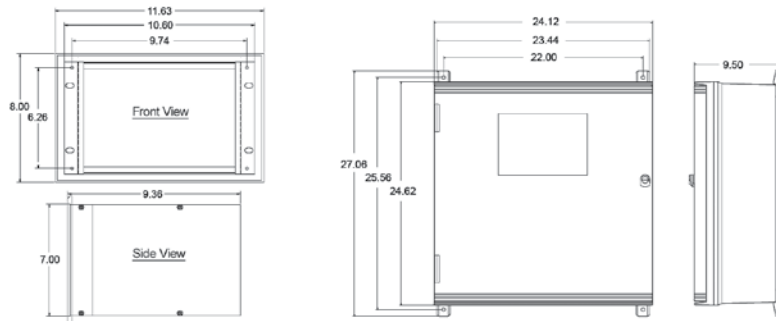
Standard Features

Inputs	Serial Port Modbus Master and Slave RS-485 ports equipped with Tx/Rx LED's
Relays	Common Alarm Relays, 5-Amp 30VDC or 250VAC resistive Form C (High, Low, Fault, Horn)
Display	QVGA 320 x 240 pixel graphic LCD with backlight displays bar graphs and engineering units. Five discrete LEDs indicate alarm status for five standard relays
Ambient Temperature Range	-25° to +60° C (-13° to 140° F)
Power Supply	10-30VDC 12 watts max

Optional Features¹

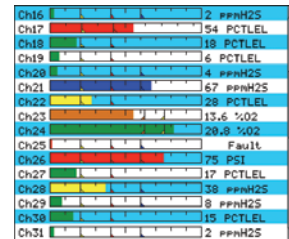
Analog Inputs	16-channel, 12-bit 4-20mA into 150 ohms input impedance; includes positive power supply terminals for each channel for routing power to 2- or 3- wire transmitters
Analog Outputs	16-channel, 10-bit 4-20mA output. Max load 800 ohms with nominal 24 VDC power supply
Discrete Alarm Relays	16-channel discrete 5-Amp Form C relay board configurable for Alarm 1, 2, or Fault
Programmable Alarm Relays	16-channel, 5-amp Form C relay board each programmable to user-defined channel and alarm (Alarm 1, 2, or Fault)
Power Supplies	85-240 VAC Universal Input 150-Watt 24 VDC Power Supply 100-240 VAC Universal Input 600-Watt 24 VDC Power Supply
Housing Options	½-width 19" rack/panel mount Full width 19" rack mount NEMA 4X large fiberglass wall mount (shown below) NEMA 4X 316 SS wall mount NEMA 7 explosion-proof wall mount NEMA 4X compact fiberglass wall mount
Approvals	CSA C22.2 No 1010.1 and C22.2 No.152 for combustibles and ISA S82.02UL 1604 / C22.2 No 213 (NEMA 4X = Division 2 Groups A,B,C,D)

¹ Specifications are subject to change



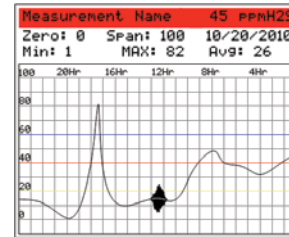
MAIN DATA SCREEN:

Displays all active channels on the same screen. Channel configurations include 16, 32, 48 and 64 (shown) active channels. Cells indicate alarm status by color.



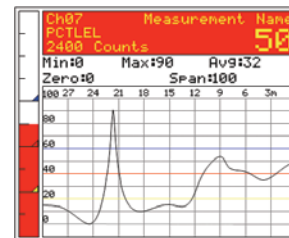
BAR GRAPH SCREEN

Displays 16 channels at a time. Side scroll bar controls for viewing more than 16 channels are visible. Bar graphs change colors to indicate alarm status.



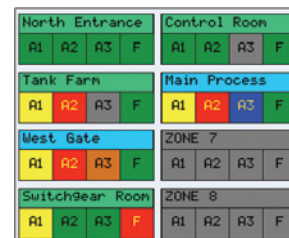
24 HOUR TREND SCREEN

Displays one channel at a time as most recent 24-hour trend. Top data fields include current reading, maximum and minimum, and average readings over the 24 hours, range, Channel ID and engineering units.



COMBINATION SCREEN

Displays one channel at a time as most recent 30-minute trend, bar graph and large engineering units. Top data fields include current reading, maximum and minimum, and readings over the 30 minutes, range, channel ID, and engineering units. Readings change color and flash on alarms. Flashing color becomes steady after acknowledgment.



ZONE SCREEN

Displays all eight possible active zones. Alarm cells change colors and name fields flash to indicate alarms. Allows user direct access to screen that shows which channels belong to each zone.

CORPORATE HEADQUARTERS

RAE Systems by Honeywell

3775 North First Street
San Jose, CA 95134 USA
raesales@raesystems.com

DS-1093-02

WORLDWIDE SALES OFFICES

USA/Canada 1.877.723.2878
Europe +45.86.52.51.55
Middle East +00971.4.440.5949
China +86.10.5885.8788-3000
Asia Pacific +852.2669.0828