



FMC 2000

Wireless Multi-Channel Controller



The RAE Systems FMC 2000 is a multi-channel controller—with a built-in wireless modem—designed for integration with RAE Systems' MeshGuard intelligent network of connected sensors. The FMC 2000 is the command-and-control element of the MeshGuard system that gathers data and monitors alarms from MeshGuard toxic and flammable gas monitors. The built-in wireless modem automatically links with MeshGuard monitors, and the controller has built-in security safeguards to resist tampering.

- Quick and easy installation
- Simple, intuitive operation
- Rugged and reliable
- Flexible to handle a variety of data processing and communication needs

KEY FEATURES

Versatile

- Built-in wireless modem for use in MeshGuard networks
- Manages up to 24 channels
- Five programmable SPDT relay outputs
- RS-485 and Ethernet interface

Easy to Use

- Backup battery for up to 15 hours of operation
- Built-in data logging
- Stainless-steel enclosure

APPLICATIONS

- Drilling rigs
- Petrochemical plants
- Tank farms
- Shipyards and maritime
- Steel mills
- Industrial safety



The FMC-2000 controller can monitor up to 24 wireless MeshGuard detectors and contains five programmable relays that can trigger external alarms or process controls.



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SPECIFICATIONS

FMC 2000 Controller Specifications

| | |
|-----------------------|---|
| Size | 9.5" W x 15.7" H x 3.7" D (24cm x 40cm x 9.3cm) |
| Weight | 14.3 lbs (6.5 kg), excluding mounting plate |
| LCD Display | 5.7" 320 x 240 Black/White graphic LCD with backlight |
| Audible Alarm | 95dB @ 12" (30cm) |
| Visual Alarm | Super-bright red LED with enclosed cover |
| Data Logging | SD card |
| Wireless Detectors | Supports up to 24 remote detectors |
| Relay | 5 SPDT relays (6A 250VAC) |
| Interface | RS-485 Modbus RTU Ethernet Modbus RTU |
| Housing | Stainless steel |
| Power Supply | 85V to 264V AC |
| Backup Battery | Rechargeable lead-acid battery 12V 2.8Ah Up to 15 hours of operation |
| Operating Temperature | -4° to 131° F (-20° to +55° C) |
| Safety Certifications | 61010-1/CSA C22.2 No. 61010-1 |
| IP Rating | IP-54 (NEMA 3) |
| Humidity | 0% to 95% relative humidity, non-condensing |
| Wireless Frequency | ISM license free band. IEEE 802.15.4 2.4 GHz |
| Wireless Approvals | FCC Part 15, CE R&TTE, Others ¹ |
| Radio Module | Supports RM2400A |

¹ Contact RAE Systems for country specific wireless approvals and certificates. Specifications are subject to change.

FMC 2000 ORDERING OPTIONS

The FMC 2000 can be ordered individually or as part of a MeshGuard system kit.

The FMC 2000 Controller Kit Includes:

- Controller with wireless modem
- Built-in rechargeable backup battery
- Wall-mounting plate
- Resource CD
- SD memory card
- Quick-reference guide
- Extension antenna (optional)

FA200 Alarm Bar Specifications

| | |
|------------------------|---|
| 4 Visual Alarm Output | Four (4) 160,000-candlepower strobes |
| 1 Audible Alarm Output | 112 dB at 10' (3 m) dual-tone steady-yelp horn |
| Power | 12 VDC supplied by FMC 2000 |
| Input Voltage | 12 to 24 VDC |
| Operating Temperature | 40° to +131° F (-40° to +55° C) |
| Enclosure | Stainless steel with protective bars over each strobe |
| Cable Length | 33' (10 m) standard |
| Connector | 6-pin mil-style plug-in male connector with cable |
| Size | 33" W x 4.5" H x 8" D (83.8cm x 11.4cm x 20.3cm) |
| Weight | 14.5 lbs (6.6 kg) |
| Warranty | 2 years |

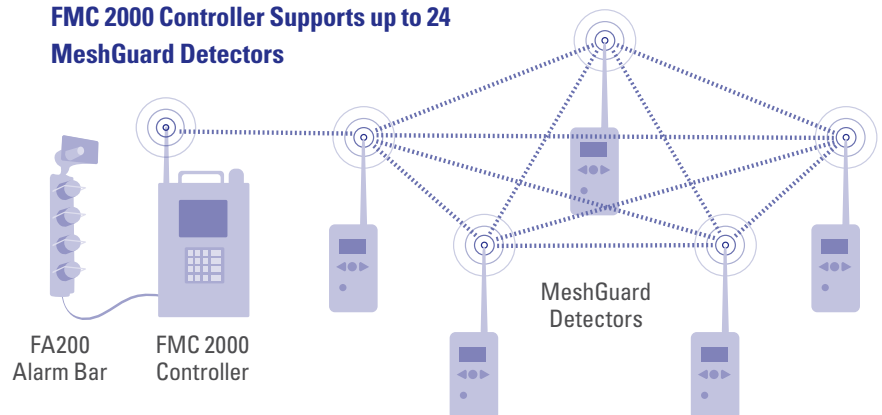
Specifications are subject to change.

OPTIONAL FA200 ALARM BAR WITH QUICK CONNECTOR



Alarm device comes with one audible and four visual alarm outputs. Alarm logic is fully configurable from the FMC 2000.

FMC 2000 Controller Supports up to 24 MeshGuard Detectors



CORPORATE HEADQUARTERS

RAE Systems by Honeywell
3775 North First Street
San Jose, CA 95134 USA
RAE-InsideSales@honeywell.com

DS-1011-06

WORLDWIDE SALES OFFICES

USA/Canada 1.877.723.2878
Europe +800.333.222.44/+41.44.943.4380
Middle East +971.4.450.5852
China +86.10.5885.8788-3000
Asia Pacific +852.2669.0828

www.raesystems.com