



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.

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

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



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

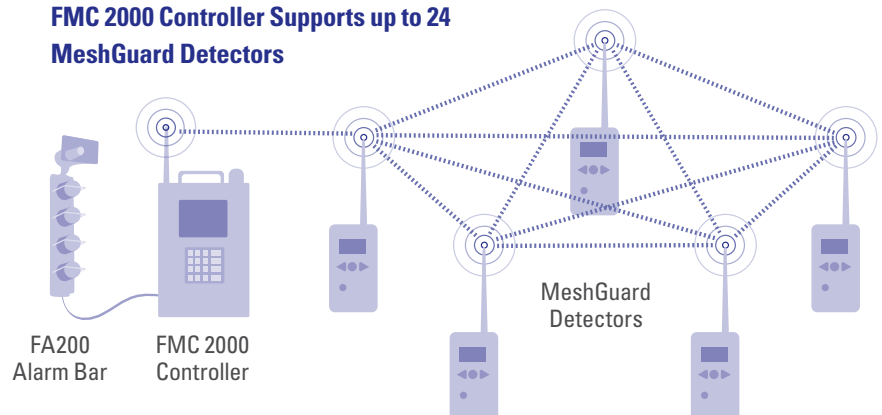
Specifications are subject to change.

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



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