



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

Detector 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 (1GB)
Wireless	2.4GHz IEEE 802.15.4/mesh radio
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)
Approvals	FCC: QNT-PT2400S20-A CE EN 300320 (RTTE directive)
IP Rating	IP-54 (NEMA 3)
Humidity	0% to 95% relative humidity, non-condensing

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.

FMC 2000 ORDERING OPTIONS

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

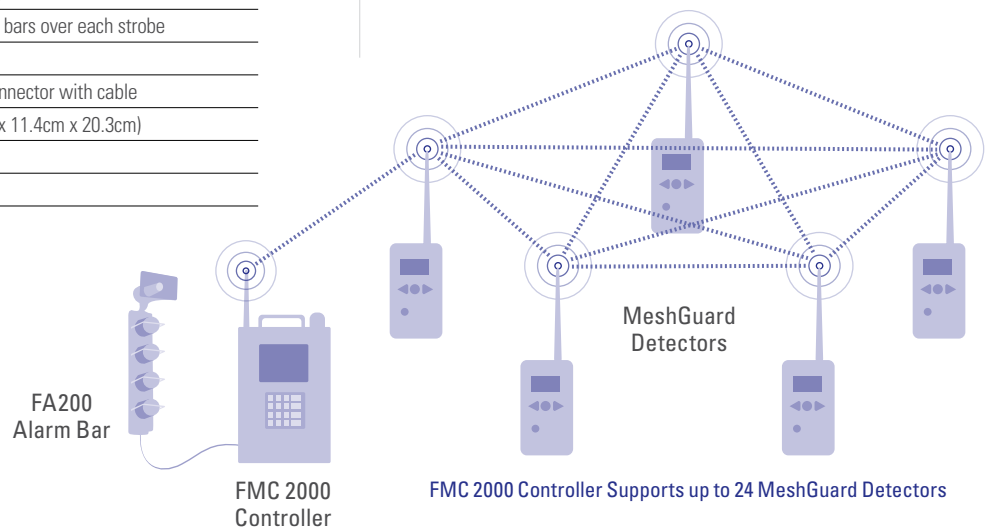
The FMC 2000 Controller Kit Includes:

- Controller with wireless modem
- Built-in rechargeable backup battery
- Wall-mounting plate
- Resource CD
- 1GB SD memory card
- Quick-reference guide
- Extension antenna (optional)

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.



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