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.

PROTECTING YOU SINCE 1953

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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

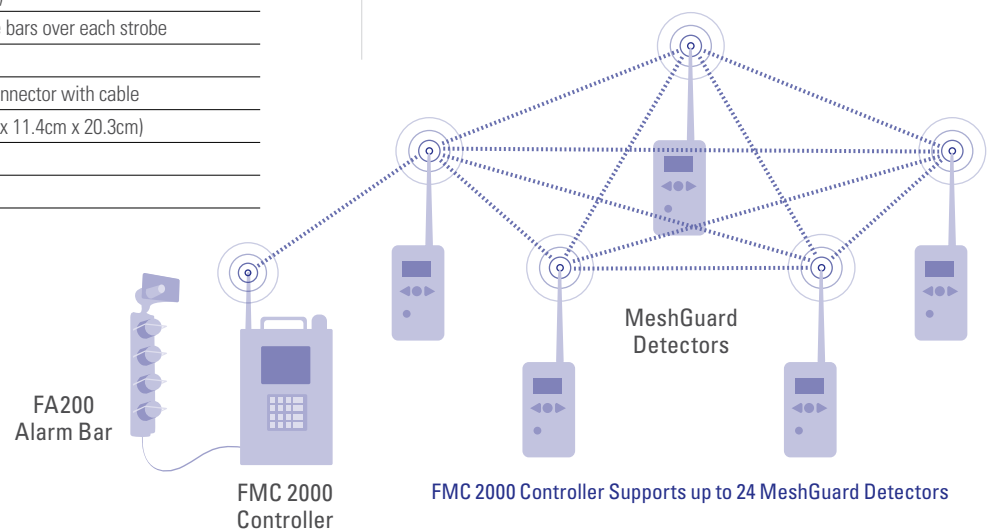The FMC 2000 can be ordered individually or as part of a MeshGuard system kit.

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.

MeshGuard Detectors

FA200 Alarm Bar

FMC 2000 Controller

FMC 2000 Controller Supports up to 24 MeshGuard Detectors

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