



Meshguard System Alarm Bars and Solar Battery Solution

Wireless Alarm Bar

The Wireless Alarm Bar communicates with the MeshGuard product family network. Each alarm bar comes with a pair of xenon strobe lights and a 112 dB horn to provide remote notifications of hazards in a work environment. A Wireless Alarm Bar can be configured as a Remote device that connects to the FMC 2000 controller.

When configured as a Remote device, the alarm bar will mirror the alarm settings in the controller. When the Wireless Alarm Bar is configured as a Host device, it becomes a stand-alone alert notification system that communicates directly with the remote monitors in a Mesh network.

Applications:

- Oil and gas exploration
- Pulp and paper industry
- Refineries and petrochemical plants
- Fenceline monitoring



- Wirelessly triggers alarm notification in hazardous environments
- Hazardous area certification
- Functions as a wireless router, extending the range of a wireless mesh network
- Can act as a wireless system host by communicating directly with MeshGuard gas monitors

KEY FEATURES

- Turn-key wireless alarm bar solution, mounted and pre-wired with two xenon lights and a 112dB horn
- Wireless transmission distance of 1,000 ft (300m) point-to-point. Range can be extended by using additional RAEPoint Wireless Relays
- Continuously powered by standard 12-28VDC input (DC version) or 110 AC (AC version)
- Explosion-proof enclosure for hazardous environment applications
- Battery driven option



Technical Specifications

DC WIRELESS ALARM BAR SPECIFICATIONS

INPUT POWER	Input 24 to 28VDC, 35W Max
WIRELESS	ISM-band, IEEE 802.15.4 / Mesh Radio
TRANSMISSION RANGE	1,000 ft (300m) typical
IP RATING	IP-65
MECHANICAL INTERFACE	1/2" NPT Male
INSTALLATION	Wall mounting
TEMPERATURE	(-20° C to +50° C) (Certified)
HUMIDITY	0 to 95% relative humidity, non-condensing
PRESSURE	90 to 110kPa
STATUS INDICATOR	4 LEDs (Network, Alarm, Communication, Mode)
DIMENSIONS	17.95" L x 18.75" W x 6.9" H (456 x 476 x 173 mm)
HOUSING MATERIAL	Aluminum
WEIGHT	26.5 lbs (12 kg)
SAFETY COMPLIANCE	Ex II 2G, Ex d ia IIC T6 Gb Class I, Division 2 Group A,B,C,D
WIRELESS CERTIFICATION	FCC Part 15 Radio Equipment Directive 2014/53/EU (RED) (Contact RAE Systems for other countries)
STROBES	Two 10 Joule xenon strobes (yellow & red) Peak Intensity 19103 Cd (yellow), 3332 Cd (red) Material LM25 TF Marine-grade alloy
SOUNDER	112 dBA at 3 ft (1 m) Material Marine grade aluminium AlSi12 Cu

AC WIRELESS ALARM BAR SPECIFICATIONS

INPUT POWER	Input 110 VAC 60 HZ, 35W Max
WIRELESS	2.4 GHz, ISM-band, IEEE 802.15.4 / Mesh Radio
TRANSMISSION RANGE	1,000 ft (300m) typical
IP RATING	IP-65
MECHANICAL INTERFACE	1/2" NPT Male
INSTALLATION	2" pipe-holding or wall mounting
TEMPERATURE	-4° F to 104° F (-20° C to +40° C) (Certified)
HUMIDITY	0 to 95% relative humidity, non-condensing
PRESSURE	90 to 110kPa
STATUS INDICATOR	4 LEDs (Network, Alarm, Communication, Mode)
DIMENSIONS	17.95" L x 18.75" W x 6.9" H (456 x 476 x 173 mm)
HOUSING MATERIAL	Aluminum
WEIGHT	26.5 lbs (12 kg)
SAFETY COMPLIANCE	Class I, Division 2 Group A,B,C,D
WIRELESS CERTIFICATION	FCC Part 15 Radio Equipment Directive 2014/53/EU (RED) (Contact RAE Systems for other countries)
STROBES	Two 10 Joule xenon strobes (yellow & red) Peak Intensity: 3840,800 Cd (yellow), 62,400 Cd (red)
SOUNDER	112dBA at 3 ft (1 m) Material: Marine grade aluminium AlSi12 Cu

ORDERING OPTIONS

Can be ordered as a Remote or Host (reconfigurable).

Configuration as AC- or DC-powered.

ORDERING INFORMATION

All Wireless Alarm Bar units include: RAEPoint Fixed Wireless Relay (with five internal relays), red xenon light, yellow xenon light, 112dBA horn, mounting plate, antenna removal tool, housing cover removal tool, user's guide.

F08-E011-020 KIT, AC Wireless Alarm Bar, Remote, 2.4GHz

F08-E011-010 KIT, DC Wireless Alarm Bar, Remote, 2.4GHz

FA300/FA324 Alarm Bar

The FA300 Alarm Bar communicates directly with the controller using a permanently affixed cable with 6-pin male connector. The FA324 Alarm Bar communicates directly with TPPLW using a permanently fixed cable with 6-pin male connector. Each FA300/FA324 comes with four xenon strobe lights and one 117dB horn. The FA300 is continuously powered by the controller.

FA300/FA324 ALARM BAR SPECIFICATIONS

Size	9.45" x 26.98" x 8.52" (66 cm x 24 cm x 31.65 cm), including siren horn
Weight	16.35 lbs (7.42 kg), including cable
Enclosure material	Stainless steel light bases with polycarbonate lens covers; ABS siren horn
Audible alarm	117dB @ 3 m (10')
Visual alarms	Four super-bright xenon strobe lights with polycarbonate lens covers (red, white, blue, amber)
Flash rate	1 flash per second
Primary Input	Permanently affixed cable with 6-pin male connector
Secondary Input	6-pin male connector
Cable Length	33' (10 m)
Power Supply	FA300 is powered by 12-volt 2A outputs from FMC 2000 FA324 is powered by 24-volt 2A outputs from TPPLW
Operating Temperature	-13° F to +131° F (-25° C to +55° C)



ORDERING INFORMATION

F05-E030-000
FA300 Alarm Bar with 4 Visible and One Audio Alarm.

F05-E030-024
FA324 Alarm Bar with 4 Visible and One Audio Alarm 24 Volt DC for use with TPPLW.