RAEPoint

Fixed-Head Wireless Infrastructure

RAEPoint is a multi-function wireless infrastructure component for RAE Systems wireless gas detection systems. This key building block can operate as an access point in hazardous areas to communicate with wireless gas detectors to enable integration with FMC-2000 or PC-based ProRAE Guardian host controllers. When directed by the controller, the RAEPoint can use any of its five internal relays to trigger audible and visible alarms to provide additional alert notification in hazardous locations. Additionally, the RAEPoint operates as a range extender to increase the wireless transmission distance of wireless gas detectors. The RAEPoint can be configured as a stand-alone unit or integrated with an optional alarmbar.

- **Wirelessly triggers alarm notification devices or process controls**
- **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 detectors**

KEY FEATURES

- 5 internal SPDT relays
- Wireless transmission distance of 1000 ft (300m) point-to-point. Range can be extended by using wireless routers.
- Continuously powered by standard 12-28VDC input
- Class 1, Division 1 (ATEX Zone 1) hazardous area certification
- Available as stand-alone unit, or as a turn-key wireless alarm bar solution, mounted and pre-wired with two 5J xenon lights and a 110dB horn

APPLICATIONS

- Oil and gas exploration
- Worker exposure monitoring
- Fenceline monitoring

RAEPoint Wireless Alarm Bar

Wireless

ISO 9001 CERTIFIED   ATEX   CSP us   IECEx   CE   FCC

RAEPoint

Fixed-Head Wireless Infrastructure

RAE SYSTEMS®
by Honeywell

RAEPOINT SPECIFICATIONS

Input/Output Power	Input: 2.4W Vinput: 12-28VDC 5 SPDT relays Resistor load max: 6A@24VDC or 6A@250VAC Inductive load max: 2A@24VDC or 3A@250VAC
Wireless	IEEE 802.15.4 ISM band
Transmission Range	1000 ft (300m) typical
IP Rating	IP-65
Mechanical Interface	3/4" NPT female
Installation	2" pipe-holding or wall mounting
Temperature	-4° F to 131° F (-20° C to +55° C)
Humidity	0 to 95% relative humidity, non-condensing
Pressure	90 to 110kPa
Display	4 LEDs (Network, Alarm, Communication, Mode)
Dimensions	10.1" x 7.9" x 4.2" (257 x 201 x 107 mm)
Housing Material	Aluminum
Weight	7.7 lbs (3.5 kg)
Safety Certification	IECEx: Ex d ia IIC T6, Gb ATEX: Ex II 2G, Ex d ia IIC T6 Gb cCSAus: Class I, Division 1 Group A,B,C,D T6
Wireless certification	FCC Part 15 R&TTE directive (1999/5/EC) (Contact RAE Systems for other countries.)

RAEPOINT WIRELESS ALARM BAR SPECIFICATIONS

Input	34.5W maximum, Vinput 12-28VDC
Wireless	IEEE 802.15.4 ISM band
Transmission Range	1000 ft (300m) typical
IP Rating	IP-65
Mechanical Interface	3/4" NPT female (UL), M25 female (ATEX)
Temperature	-4° F to 131° F (-20° C to +55° C)
Humidity	0 to 95% relative humidity, non-condensing
Pressure	90 to 110kPa
Display	4 LEDs (Network, Alarm, Communication, Mode)
Strobes	Two 5 Joule xenon strobes (yellow and blue)
Strobe Peak Intensity	19103 Cd (yellow), 2665 Cd (blue)
Sounder	110dBA at 10 ft (3m)
Dimensions	27.2" x 9.0" x 9.5" (690 x 228 x 240 mm)
Weight	33 lbs (15kg)
Safety Certification	ATEX: II 2G Ex d IIB T5 Gb UL: Class I, Div. I, groups C, D (pending)
Wireless certification	FCC Part 15 R&TTE directive (1999/5/EC) (Contact RAE Systems for other countries)

Specifications are subject to change

ORDERING OPTIONS

The RAEPoint can be ordered as a stand-alone wireless unit, or as an integrated Wireless Alarm Bar complete with two strobes and one horn. Each RAEPoint can be configured as a Router, Remote, or Host on a wireless mesh network. Configurations include:

RAEPoint Router

A stand-alone, DC-powered, explosion-proof unit that acts as a permanent wireless router for mesh network systems. Includes an aluminum enclosure with LED status indicators and an integrated wireless mesh radio.

RAEPoint Remote & RAEPoint Host

Stand-alone relay units include an aluminum enclosure with LED status indicators, an integrated wireless mesh radio, and five integrated relays.

RAEPoint Remote Wireless Alarm Bar & RAEPoint Host Wireless Alarm Bar

Wireless alarm bar units include the RAEPoint fully integrated with two xenon strobes and a 110dB horn.