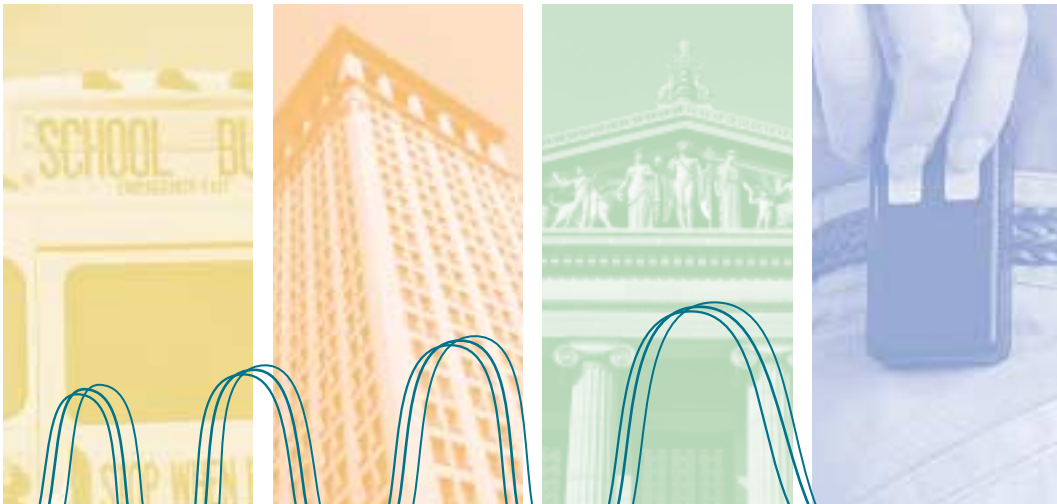


900MHz wireless security products catalog



2001
2002

core values and beliefs of inovonics wireless



We value honesty & integrity, with respect for all people.

We value diversity of thought and background. We draw strength from this diversity, and believe that such diversity is achieved when a proper balance between career, community involvement, and personal life is maintained.

We believe that quality begins with customer expectations and ends with customer satisfaction, and that quality is measured by our customer's success. This philosophy continually focuses our efforts to creatively meet the needs of our customers.

We believe that to sustain these values and to have a positive impact on our employees, customers, and communities, fair profit is a necessary outcome of our endeavors.

We value effort that is competent, creative, and collaborative, and leadership that empowers others to embrace and amplify these values to achieve success. Above all, we believe that our success rests squarely on the competency, creativity, teamwork, diversity, initiative, and integrity of our employees and we value these qualities most highly.

purpose

Extend the reach, capabilities, and positive impact of human activities by creating innovative wireless communication solutions.

discover the range

More products. More range. More installation options. Just what you'd expect from the company that pioneered the development of 900MHz wireless in the security industry. After more than 14 years as the performance leader, Inovonics Wireless is uniquely qualified to provide you with the equipment and the expertise you need to make your next installation a success.

In this catalog, you'll find complete burglary and fire alarm systems, slave receivers for adding 900MHz wireless to existing hardwire panels, and a wide selection of sensors, transmitters, and accessories—all based on our high-performance Frequency Agile® technology. While we're pleased to offer you the industry's largest selection of 900MHz products, our true satisfaction comes from knowing that Inovonics Wireless is delivering the solutions needed by today's security professional. Plus, our products are designed, manufactured, and supported right here in the United States.



contents

welcome to the Inovonics Wireless 2001-2002 security products catalog, your one-stop source for true wireless solutions. With over one million RF products installed around the world, Inovonics Wireless offers superior reliability, range and performance based on our Frequency Agile technology.



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product line overview

Inovonics Wireless offers two product lines: 1) Burglary and fire alarm systems and 2) Slave receivers to add fully supervised 900MHz wireless to any hardwire panel. Whatever the application, Inovonics Wireless has the range and reliability your customers demand in wireless security and life safety installations. We also offer the flexibility you need, including a greater assortment of products and configuration options to fit any budget.

Both system level products and slave receivers are supported by the industry's broadest line of 900MHz transmitters, sensors, and repeaters, including PIRs, door/window sensors, smoke detectors, glassbreaks, temperature sensors, and more.



Burglary and Fire Alarm Systems

In addition to the Wireless Guardian and Vision Plus, our own complete wireless systems, Inovonics Wireless 900MHz products are integrated with the following popular products from Digital Monitoring Products (DMP):

- XR20 Panel
- XR200 Panel
- XR6
- XR40

And Radionics compatible FA422 Receiver with:

- D2212B Panel
- D2412U Panel

See page 8 for details.



Slave Receivers for Add-on Applications

You can add 900MHz wireless to any installation, or even create stand-alone systems for certain applications. Inovonics Wireless offers receivers that support from one to 64 fully supervised 900MHz transmitters, and all receivers are available with either a transistor output or mechanical Form C relay. Optional seven-segment displays are also available for the FA416 family of receivers.

By automatically monitoring the radio link, fully supervised Inovonics Wireless can detect a malfunctioning transmitter in minutes instead of hours or days like other systems.



What to look for in wireless

According to a J.P. Freeman & Company report, the area of fastest growth in the security industry is in new technology including wireless and hybrid systems. In fact, wireless systems have grown at a rate of more than 150% since 1992, largely due to improvements in technology and higher installation costs for hardwire systems. There's no doubt, installing a wireless system can help save you and your customers both time and money. But make no mistake: all wireless is not created equal. Before specifying a system, make sure you carefully compare range, reliability and performance.

Extended range, greater application flexibility

Most wireless systems still operate on 300MHz technology, the same 20-year-old platform that likely operates your garage door opener. Inovonics Wireless is the only wireless based on advanced 900MHz Frequency Agile Technology, a more powerful, more reliable 900MHz radio link. Because FCC regulations permit higher transmit power for 900MHz systems, Inovonics Wireless offers superior in-building range

compared to other wireless security products. Our FA203 and FA205 pendants and belt clip transmitters, for example, can provide as much as 10 times the range of 300MHz pendants. That's why you'll find Inovonics Wireless at work in such a wide range of applications: everything from portable classrooms to construction sites, parking structures, warehouse complexes, and shopping malls, including a 1.3 million-square-foot retail center in Florida. There is a second reason that 900MHz Frequency Agile products provide superior in-building range. The 900MHz wavelength is 70% shorter than the 300MHz wavelength, so the signal can squeeze through narrow openings and is ideal for applications with metal or stucco construction materials.

Increasing reliability and false alarm immunity

Range, of course, is only part of the equation. Reliable performance is just as important. Most 300MHz, or narrow-band wireless systems transmit on a single frequency, meaning that any in-band interference can block the signal. To reduce the impact of in-band interference, Inovonics Wireless is based on a proven frequency hopping, spread spectrum technology that offers greater reliability in a wide range of applications. Instead of transmitting on a single frequency, Inovonics Wireless sends redundant signals across a 10MHz band. Even if the transmission is blocked on one or more frequencies, the signal has numerous other frequencies to reach the receiver for a successful transmission.

Supervision ensures system performance

A final area to consider in evaluating wireless is supervision. Supervision, or self-testing, is the term that is applied to a security system's self-diagnostics. Some wireless systems only perform a self-test once every 24 hours. Others don't even bother to verify the communications link at all. But with Inovonics Wireless, transmitters can send check-in signals as often as every 10 seconds, allowing the detection of a missing or malfunctioning transmitter in less than one hour. In contrast, it can take some wireless systems up to 24 hours or more to detect a malfunctioning transmitter. It's also important to remember that some manufacturers claim they offer supervised wireless systems, when in fact only the battery is supervised. If the transmitter stops working for any other reason, you and your customers will never know unless you manually test the transmitter. Every Inovonics Wireless transmitter, except for the FA100 and FA113 arming devices can automatically supervise the radio link and battery. Many transmitters also provide notification of case tamper and universal transmitters can even monitor the wire between a transmitter and an external switch. If the wire is cut for any reason, the transmitter will transmit a tamper.

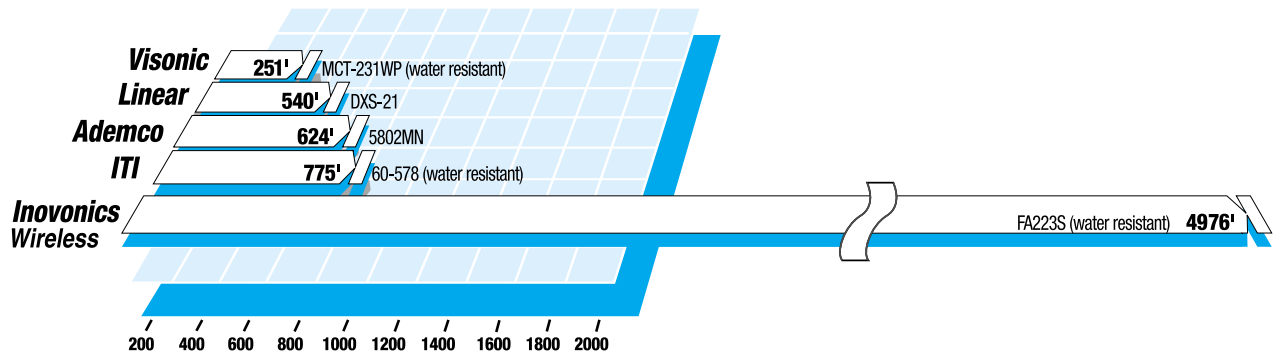
3 key reasons why Inovonics Wireless is the best!

1 Inovonics Wireless goes farther

Inovonics Wireless products provide range far superior to products operating at 300MHz! Why?

The 900MHz wavelength is 70% shorter than 300MHz products, allowing the signal to “squeeze” through narrow openings in both commercial and residential environments.

The FCC allows higher transmit powers for 900MHz spread spectrum systems. Greater transmit power results in significantly greater range. Inovonics Wireless offers up to 10 times the open field range of some narrow-band security products.



Notes and testing conditions

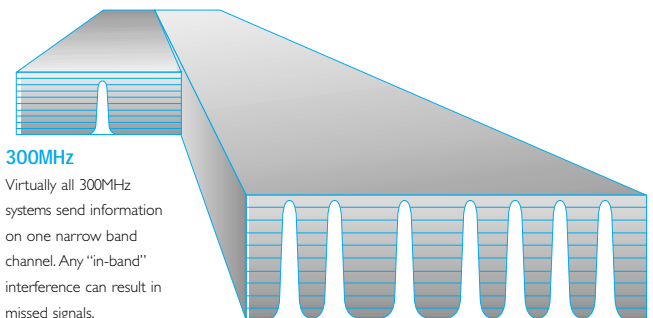
1. The range of any wireless system is very dependent on the building structure and environment in which the equipment is operating. Additional factors that will impact performance include, but are not limited to, the presence of interference, product orientation, method of holding and activating the product, and obstructions between the transmitter and receiver.
2. Open-field range test are useful for equipment comparisons, however; the range difference may not scale in the same proportions for in-building applications.
3. Please contact Inovonics Wireless and request the Range Test Tech Note for a complete description the testing methodology and results.

2 Automatic "Self-testing"

Inovonics Wireless products “fully supervised” with the most frequent transmitter “check-ins” available today. Full supervision means that the transmitters automatically transmit (“check-in”) to the receiver on a regular basis to test the system for low battery, tamper; and inactive status. With Inovonics Wireless 900MHz products, the transmitters check-in once a minute — far more often than any other!

3 No false alarms from interference

Inovonics Wireless sophisticated 56 bit protocol eliminates false alarms due to radio interference. With over 1.3 million products installed worldwide, not a single false alarm due to RF interference has ever been reported.



Inovonics Wireless 900MHz Frequency Agile

Inovonics Wireless Frequency Agile wireless sends redundant information on a multitude of different channels across a 10MHz band, to maximize range and reliability.



Quality made in the USA since 1986. Since 1986, Inovonics Wireless has specialized in high performance wireless products. We pioneered the use of 900MHz technology in the security industry and continue to develop innovative and high quality products for the security industry.



wireless GUARDIAN



Wireless Guardian

The Wireless Guardian System includes the Wireless Guardian Control/Communicator Panel and an integrated receiver. An LCD keypad is sold separately. Available only through our exclusive dealership program, the Wireless Guardian is a competitively-priced hybrid panel that offers the flexibility you need to make your next installation a success. Ideal for both commercial and residential applications, the system includes the CP2130 Wireless Guardian control/communicator panel, and an integrated receiver. Wireless Guardian also supports our wide range of transmitters, wireless remotes, and keypads that can be placed exactly where they are needed without drilling holes or pulling wires through walls, floors or ceilings. Wireless Guardian's simplified keypad interface allows your customers to easily arm and disarm the system, check system status, or bypass specific points. Descriptions for each point can be entered in English, providing easy recognition of alarm and system status.

- Full upload/download capability with answering machine bypass
- Communicator uses 4x2, 4x2 Map, or Contact ID reporting
- Four built-in hardwire zones
- Supports up to 48 fully supervised wireless points
- Easy to program. Menu prompts eliminate the need to memorize locations or codes
- 900MHz Frequency Agile radio provides superior range
- Large, backlit alphanumeric LCD with 2x16-character display
- Compatible with a wide range of arming devices and transmitters
- Event memory stores up to 95 events
- Opening and closing reports by user ID
- Independently programmed entry and exit delays
- Keypad displays signal status
- Spanish keypad available

The Wireless Guardian dealer program is offered only to a select group of security professionals. For details on becoming a Wireless Guardian dealer, call 800-782-2709 today.

VISION plus



Vision Plus

Our packaged wireless/hardwire system, FA2525, includes the C2020 Vision Plus control/communicator, the KP103 keypad, and the FA400 remote receiver. Perfect for mid- to high-end residential or commercial installations, the Vision Plus wireless/hardwire panel has 48 fully supervised points, six of which can be hardwired. Programming is user friendly with helpful prompts, there are no programming codes to memorize. With the Vision Plus, you can tailor the installation to your customers' requirements by adding up to two receivers, four hardwire keypads, and multiple repeaters.

Other features include:

- Full upload/download capability with answering machine bypass
- Five arming modes
- Two Form C relays included
- Six built-in hardwire zones
- Communicator uses 4x2, 4x2 Map, or Contact ID reporting
- Large, backlit alphanumeric LCD with 2x16-character display
- Compatible with a wide range of arming devices and transmitters
- Easily programmed via keypad or downloader
- Event Memory stores up to 95 events
- Opening and closing reports by user ID
- Independently programmed entry and exit delays

system level products

Digital Monitoring Products

Inovonics Wireless' six-year relationship with Digital Monitoring Products continues to provide dealers with a wide range of options for both residential and commercial applications. DMP offers two versatile panels with integrated Inovonics Wireless receivers, the XR20 and the XR200, which are capable of supporting up to 200 fully supervised Inovonics Wireless transmitters.

XR20 with FA426 Receiver

Competitively priced for residential or small commercial applications, this hybrid panel provides 10 hardwire zones and fully supervises up to 16 Inovonics Wireless transmitters. The XR20 provides one two-wire smoke detector zone, access control capability, Pager Direct™ reporting to customers' pagers, 32 user codes, and daily opening and closing schedules.

Other features include:

- Arm Only, Temporary, and Ambush user code options
- Automatic arming and disarming by schedule
- Alternate reporting to two central station receivers
- Four outputs for annunciation and control applications
- 16-character zone and area names
- Review up to 100 event history displays from keypad

XR200 with FA400 Receiver

For demanding residential and commercial applications, the XR200 is the most powerful control panel available. Capable of supervising up to 200 Inovonics Wireless transmitters, the XR200 is the equivalent of four control panels. There are 10 on-board zones expandable to 242 fully programmable zones, 200 user codes with nine authority levels, up to 234 two-wire smoke detector zones, 20 individual reporting areas,

and access control capability.

Other features include:

- Area, All/Perimeter, or Home/Sleep/Away arming modes
- Up to 242 graphic annunciator outputs
- Up to 202 programmable Form C relays
- Seven-day temporary user codes
- Built-in programming from any keypad
- Eight supervised keypad addresses with 32 zones
- Four-wire keypad and zone expander connections
- 200-event history display from keypad
- Alternate reporting to two central station receivers

For additional information, call Inovonics Wireless at 800-782-2709 or DMP at 800-641-4282.



DMP

Inovonics Wireless

XR200 & 472

FA400-200 zones/
200 standard wireless zones
or 1 (FA113) arming/
disarming & 199 standard
wireless zones

XR20

FA426-16 zones/1 (FA113)
arming/disarming
15 standard wireless zones

XR6

FA426-3 zones/3 standard
wireless zones NO wireless
arming/disarming

XR40

FA426-16 zones/1 (FA113)
arming/disarming
15 standard wireless zones



Digital Monitoring Products

system level products

Radionics Control Panels

Inovonics Wireless has established a strategic relationship with Radionics to provide you with even more installation options. With the introduction of the new FA422 receiver, you can now fully integrate Inovonics Wireless transmitters to Radionics control panels. Designed specifically for Radionics D2212B and D2412U systems, the FA422 connects directly to the keypad bus to access wireless point status for up to 16 Inovonics Wireless transmitters. The D2212B features eight on-board hardwire sensor loops and three software points. The D2412U features six on-board hardwire sensor loops and three software points. On-site point and system status annunciation are provided through a system keypad that features a backlit two-line LCD display. The D2412U control panel also supports full data interface an UPLINK™ Model 1600 Cellular/CellemetrySM Radio



Radionics®

Transceiver. Other features include:

- Expansion capability to 24 wireless points using two FA422 receivers
- Powered, resetable sensor loop for two-wire smoke or glass break detectors
- Alarm verification for fire point
- Eight user passcodes with user ID reporting
- Lightning and EMI protection
- Programmable locally at keypad or with D5200 Programmer
- Remote Account Manager provides remote programming, diagnostics, and control
- Radionics' Modem IIIa2™ Communications Format
- Automatic test reports
- Keyswitch arming capability with outputs available for LEDs



- Radionics' Easikey™ access control disarming capability
- Compatible with most Inovonics Wireless FA Series transmitters and repeaters

For additional information on system level products featuring integrated Inovonics Wireless receivers call 800-782-2709 or Radionics at 800-538-5807.





The reliable performance of Inovonics Wireless arming equipment is your customers' daily reminder that you have given them the highest quality wireless security installation. From wireless keypads to keychain remotes, our 900MHz Frequency Agile arming devices are a technological leap from yesterday's less-capable 300MHz devices.

FA100 Command Remote

A wireless remote control that provides simple arming/disarming/alert functions at the touch of a button. Works with the Vision Plus, Wireless Guardian, DMP, and Radionics panels with an integrated Inovonics Wireless receiver.

FA130 Wireless Keypad

A perfect replacement for a difficult wire run, the fully supervised FA130 features clearly identified keys in a housing designed to blend in with any decor. When used in combination with a speaker or status light, it provides extremely reliable and secure wireless arming, disarming, and panic signaling. Used with the Inovonics Wireless Vision Plus and Wireless Guardian panels.

KP103 Hardwired Executive Keypad

Featuring a large, easy-to-read display, this keypad improves the appearance and directs the performance of the Vision Plus system. The KP103 features include

an easy-to-read alphanumeric LCD with 2x16 character display, backlit keys, and dedicated EMERGENCY, FIRE, POLICE, SPECIAL, and CHIME keys. Installation is easy and splice-free with terminal block connections.

FA113 Keychain Remote Control

This convenient remote offers the range and reliability of 900MHz technology, yet it's small enough to fit on a keychain. Use it for remote arming, disarming, and panic for all Inovonics Wireless panels as well as DMP and Radionics panels with integrated Inovonics Wireless receivers.



The KP103 Keypad's backlit readout displays system status.

Model	Dimensions	Power	Battery Replacement ¹	Battery Life (avg.) ²
FA100	5.6 x 1.8 x 0.8"	3.0V Lithium	BAT604 ³	8 years (unsupervised)
FA130	8.25 x 4.5 x 1.125"	3.0V Lithium	BAT604	3-4 years (supervised)
KP103	8.25 x 4.5 x 1.125"	from panel	N/A	N/A
FA113	1.6 x 3 x 0.75"	3.0V Lithium	BAT608	8 years (unsupervised)

1) Not all brands are equivalent! Impedance varies considerably in lithium batteries. Please use only the lithium batteries specified.

2) Unless otherwise noted, typical battery life shown is for supervised operation using recommended check-in times.

3) In early 1997, the battery in the FA100 was converted from the BAT606 to the BAT604.

Operating Environment: 32 to 140° F (0 to 60° C), up to 95% relative humidity (non-condensing)

universal door/window transmitters



Look for a new FA210 housing in 2001.

These fully supervised transmitters enable you to program check-ins at 5-minute, 60-second, 30-second, and 10-second intervals—perfect for high security installations that require a tight supervision window OR residential installations where a four-hour window is sufficient. In addition to conventional door contacts, consider using Inovonics Wireless universal transmitters with shock sensors, holdup buttons, pressure mats, temperature sensors, status relays, and a host of other sensors and devices.

FA200 Slim-Line Universal Transmitter

For use with any standard switch, sensor, or device that changes state from Normally Open to Normally Closed, or vice versa. Fully

supervised with case tamper; this transmitter also supports an end-of-line resistor for true security. Includes battery.

FA200W "Wide Gap" Door/Window Transmitter

Same as the FA200 but includes a built-in magnetic reed switch and large magnet to support a one inch gap. Includes battery.

FA210 Reduced-Size Universal Transmitter

Available in off-white (FA210) or brown (FA210-BN). For use with any standard contact or sensor; this reduced-size universal transmitter comes with case tamper and supports an end-of-line resistor. Mounting bracket provided for quick

and easy installation. Includes a 3V lithium battery.

FA210W Reduced-Size "Wide Gap" Door/Window Transmitter

Available in off-white (FA210W) or brown (FA210W-BN). Same as the FA210 but includes two built-in magnetic reed switches—one on top, and one on the side for maximum flexibility. Includes magnet that supports a 5/8" gap. Includes a 3V lithium battery.

FA210M (Momentary) Reduced-Size Universal Transmitter

Same as FA210 but is designed to support a N/O momentary switch with a fast contact closure. Ideal for

push-button applications (switch closure time needs to be greater than 10ms), the FA210M is not intended for use with a latching switch and does not support an EOL resistor. Includes a 3V lithium battery.

Why use an EOL resistor?

Only Inovonics Wireless universal transmitters supervise the wire between the transmitter terminal block and switch via an EOL (end-of-line) resistor. If the wire is cut accidentally or intentionally, a tamper message will be transmitted.

Model	Dimensions	Power	Battery Replacement ¹	Battery Life (avg.) ²
FA200	6 × 1.25 × 0.75"	4.5V Alkaline Pack	BAT601	3-4 years
FA200W	6 × 1.25 × 0.75"	4.5V Alkaline Pack	BAT601	3-4 years
FA210	3.5 × 1.7 × 0.9"	3.0V Lithium	BAT604	4-5 years
FA210W	3.5 × 1.7 × 0.9"	3.0V Lithium	BAT604	4-5 years
FA210M	3.5 × 1.7 × 0.9"	3.0V Lithium	BAT604	4-5 years

1) Not all brands are equivalent. Please use only the Inovonics Wireless battery specified.

2) Unless otherwise noted, typical battery life shown is for supervised operation using recommended check-in times.

Operating Environment: 32 to 140° F (0 to 60° C), up to 95% relative humidity (noncondensing)



FA250

FA250 High Power Universal Transmitter

Ideal product for buddy systems, very large sites, or sites with separate buildings. Same operation as the FA210 universal transmitter, but with increased output power and at least four times the open field range. Works with all Frequency Agile receivers and repeater.

FA575 High Power Repeater

The FA575 repeater offers substantially more transmit power than previous models and 300 times the output power of 300MHz products, dramatically increasing range — especially in “open-air” type of installations such as multi-building projects. The transmitter on the repeater has up to four miles of

open field range. You can now install Inovonics Wireless in almost any site including campuses, office complexes, multistory buildings and more.

FA575 Features

- Effectively enhances the range of transmissions without wiring or programming
- Signal Synchronization Processing™ minimizes the excessive signal generation problem that occurs with conventional store and forward repeaters
- Easy to install—just mount and plug into an AC outlet
- Flexible design monitors battery, protects case against tamper (requires optional contacts)



FA575

- Repeater can be programmed as a point for supervising the radio link from the repeater to home receiver
- Attractive weatherproof housing
- Allows a virtually unlimited number of repeaters to be added to any job
- Allows repeater to be customized for each application
- Perfectly suited for indoor or outdoor installations

FA570 High Power Indoor Repeater

The FA570 is the same repeater as the FA575 without the ACC640 outdoor housing that accommodates a back-up battery.

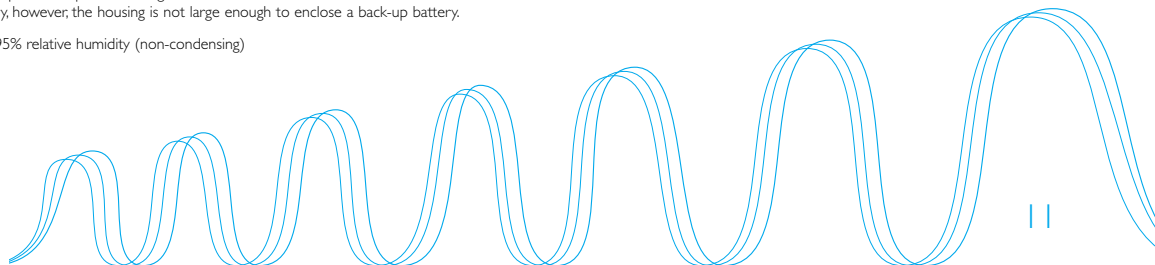
The substantial increase in transmit power of the high-power FA575 offers even greater application flexibility. With over four miles of open field range, you can install Inovonics Wireless in almost any site, including campuses, office complexes, and multistory buildings. In fact, Inovonics Wireless repeaters are currently in use at a 1.3 million square-foot shopping mall in Florida.

The FA575 repeater can be solar-powered. Please call for details.

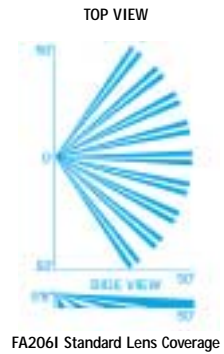
Model	Dimensions	Power	Battery Replacement ¹	Battery Life ² (avg.)
FA250	6 x 1.25 x 0.75"	3.0V Lithium	BAT604	1 years
FA575	7 x 7 x 3"	14 VAC/20VA transformer included	Back-up battery (BAT603) available	N/A
FA570	6.5 x 3.5 x 1"	14 VAC/20VA transformer included	See Note 3 below	N/A

1) Not all brands are equivalent. Please use only the Inovonics Wireless battery specified.
 2) Unless otherwise noted, typical battery life shown is for supervised operation using recommended check-in times.
 3) FA570 has charging circuitry to support a back-up battery, however, the housing is not large enough to enclose a back-up battery.

Operating Environment: 32 to 140° F (0 to 60° C), up to 95% relative humidity (non-condensing)



passive infrared motion sensors/transmitters



Inovonics Wireless offers the flexibility of three motion sensors, each with an integrated transmitter to meet every indoor installation need. All PIR transmitters feature advanced digital signal processing to recognize "human signature" size and movement, reducing false alarms. All PIRs come with a 3V lithium battery.

FA206I

For residential and high-traffic commercial applications, the Inovonics Wireless brand PIR features rounded design to blend with surrounding environment and offers extended battery life in high-traffic applications. The advanced microprocessor ensures capture while minimizing false alarms.

FA206S

For residential and low-traffic commercial applications, Sentrol's premier Sharpshooter PIR has increased immunity to radio interference, vibration, static, stray light, rapid temperature changes, and other false alarm sources. Provides 45°x90° coverage. Optional lens patterns available.

FA206DS

For larger commercial applications, Detection System's 775 RF PIR offers both a high detection rate and high immunity to false alarms. The three-minute sleep time after alarm detection maximizes battery life in high traffic applications. Mirrored optics provide superior signal-to-noise ratio and better capture. Pointable mirror inside tamper-protected case ensures the PIR is not mis-directed or mis-aimed without detection. Long-range mirror (ACC671) also available.

PIR Accessories

ACC660 Assorted Lens Pack

Package of five assorted lens types are available for the FA206S Sharpshooter PIR.

ACC661 Pet Alley Lens Pack

Package of five Pet Alley lenses are available for the FA206S Sharpshooter PIR.

ACC662 Mirror for PIR

Ideal for installing the FA206S Sharpshooter PIR, this temporary mount mirror allows for easy installation and tuning.

ACC663 Ceiling Mount for PIR

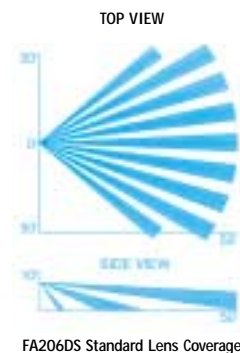
Converts the FA206S Sharpshooter PIR into a wireless ceiling mount PIR.

ACC664 Metal Cage for PIR

Protects the FA206S Sharpshooter PIR in various applications.

ACC671 Long Range Mirror

Provides 120 foot range for the FA206DS PIR.



Model	Dimensions	Power	Battery Replacement ¹	Battery Life (avg.) ²	Sleep Time	Operating Temperature
FA206I	5.55 x 2.7 x 2.2"	3.0V Lithium	BAT604	2 years	Variable ³	32 to 120° F
FA206S	3.75 x 3 x 2.5"	3.0V Lithium	BAT604	2 years	90 Seconds	32 to 120° F
FA206DS	5.75 x 3.75 x 2.5"	3.0V Lithium	BAT604	2 years	180 Seconds	32 to 120° F

1) Not all brands are equivalent. Please use only the Inovonics Wireless battery specified.
 2) Unless otherwise noted, typical battery life shown is for supervised operation using recommended check-in times. The battery life of a PIR transmitter is highly dependent on traffic in its coverage area.
 3) Designed specifically for wireless applications, the FA206I has a 90 second sleep time, but has intelligence to "sleep-longer" off initial alarm to provide extended battery life in high-traffic environments, such as lobbies and hallways.





FA209



FA207



FA202



FA209 Wireless Billtrap

Finally, a wireless billtrap with a thin (1/2") profile and the ruggedness of a hardwire billtrap. Our 900MHz Frequency Agile radio technology allows the FA209 to be fully supervised even inside a metal cash drawer while allowing easy drawer removal. Your choice of instant transmission or our SelectStart feature, which minimizes false alarms with a 10-second delay before transmitting. Includes battery.

FA207 Glassbreak Detector/Transmitter

For proven performance and higher immunity to false alarms, our FA207 utilizes Sentrol's ShatterPro II Pattern Recognition Technology™ to provide extended range (25 ft. radius, 360° coverage), automatic test, and end user features. Includes a 3V lithium battery.

FA216 Temperature Transmitter Family

Provides greater flexibility in monitoring temperature changes. To protect against freeze damage, the FA216L sends a standard alarm message if ambient temperature falls to 43°F. Protect against overheating with the FA216H, which sends a standard alarm message if temperature reaches 135°F. In addition, the FA216H&L work with any Inovonics Wireless receiver and can be factory programmed to simultaneously monitor both high and low temperatures. They are ideal for greenhouses, barns/stables, commercial refrigerators, laboratories, computer/telecommunications rooms, and other applications where it is necessary to keep the temperature within a set range. Includes batteries. Custom factory-programmed settings are available for all FA216 models. Battery included.

FA202 Smoke Detector/Transmitter

Our FA202 features Sentrol's latest smoke detector improvements including longer battery life, CleanMe™ diagnostics, improved styling, and more. Now powered by two lithium batteries, battery life is estimated at up to five years, which reduces the inconvenience and cost of replacing batteries. The detector continually monitors itself, providing drift compensation and visual display of over- or under-sensitivity so that corrective action can be taken, to reduce false alarms. The sophisticated electronics and replaceable optical chamber eliminates the need to send the smoke detector to the factory for recalibration. Includes batteries. UL approved for residential fire.

Why 900MHz Systems Offer Better Supervision
FCC regulations effectively limit 300MHz non-alarm transmissions to one per hour. That's why it takes up to 24 hours to detect a missing or inactive transmitter on all supervised 300MHz systems. Note that some 300MHz systems do NOT even provide this supervision! However, there are no such restrictions for 900MHz spread spectrum systems. With Inovonics Wireless systems, transmitters can send supervisory signals (check-ins) as often as every 10 seconds, allowing a missing transmitter to be detected in less than one hour, or even 20 minutes in some applications. Please call if you need a supervision window less than one hour.

Model	Dimensions	Power	Battery Replacement ¹	Battery Life ² (avg.)
FA202	5.5 Diameter x 2.3"	3.0V Lithium	BAT604 (2 Required)	3-5 years
FA207	3.1 x 4.75 x 2.75"	3.0V Lithium	BAT604	3 years
FA209	2.6 x 6.1 x 0.52"	3.0V Lithium	BAT609 (2 Required)	1 to 2 years
FA216	3.5 x 1.7 x 0.90"	3.0V Lithium	BAT604	4 years

1) Not all brands are equivalent. Please use only the Inovonics Wireless battery specified.
2) Unless otherwise noted, typical battery life shown is for supervised operation using recommended check-in times.
Operating Environment: 32 to 140° F (0 to 60° C), up to 95% relative humidity (non-condensing)



FA223D



FA223S



FA223S

Water-Resistant Pendants

These pendants feature interchangeable clips that adapt the transmitters to virtually any personal panic signaling application. Included with the transmitters are lanyard and belt clip that allow them to be worn as pendants or clipped to a belt. With the optional wristband, the FA223S and FA223D can be worn like a watch.



FA223S Single-Button Water-Resistant Pendant

This pendant features the great range and reliability of 900MHz in a small, water-resistant package! Users can now wear the pendant in the shower or bathtub, outside in the rain, or wear it when they wash. A single button design with "press and hold" activation makes the product very easy to use, yet still reduces false alarms—especially suited for assisted living installations. Weighing

less than 1.4 ounces, it is supplied with both a neck cord and belt clip, and can easily be converted by the end user. An optional ACC623 wristband allows the pendant to be worn on the wrist or arm. Like all Inovonics Wireless pendants, the FA223S features a fully supervised radio link to ensure reliability. The built-in LED flashes with all transmissions, including supervision, to assure the user that the transmitter is still functioning. Includes a customer-replaceable 3V lithium button-type battery.

Double-Button Water-Resistant Pendant

The FA223D is similar to the FA223S but designed to meet the specific protection needs of patrolling guards, bank employees, and retail store employees. The two-button design provides protection against false alarms because both buttons must be pressed simultaneously to initiate an alarm transmission. In addition, the brightness of the LED is diminished to minimize observation of alarm activation during duress situations. The FA223D is available in dark gray and includes a customer-replaceable 3V battery. It has the same wearing option accessories as the FA223S.



ACC623
(FA223S SOLD SEPARATELY)

ACC623 Wristband

Converts the FA223S and FA223D to a wristband-style transmitter that can be worn like a watch. This durable wristband is ideal for personal panic applications where the transmitter needs to be within easy reach. Order ACC623L for wrists 6.5" to 8.6"; order ACC623S for wrists 5.3" to 7".





FA203S Necklace Pendant Transmitter Single-Button

A sleek design with simple, single-button activation. LED flashes with all transmissions, including supervision, so the user knows the unit is operating. Pendant can be supervised. It comes with a neck cord or it can easily be mounted for fixed position signaling. Includes a customer-replaceable 3V lithium battery.

FA203D Necklace Pendant Transmitter Double-Button

Same as the FA203S but includes a double button to minimize false alarms. Both buttons must be pressed simultaneously to initiate an alarm transmission. Includes a customer-replaceable 3V battery.

FA204 Pendant Transmitter Double Side-Button

Portable personal emergency (medical or police) signaling device. Supervised pendant comes with neck cord or optional holster (ACC624) for wearing on belt. Includes two side buttons to

minimize false alarms. Both buttons must be pressed simultaneously to initiate an alarm transmission. Includes a customer-replaceable 3V battery.

FA212 Two-Channel Transmitter

Two-channel transmitter for a variety of remote control and signaling uses. Press either button individually and the first point ID is transmitted. Press both buttons together and a second point ID is transmitted. For use with FA464DR or FA416 receiver family only. Includes battery.

* FA116 programmer required.

ACC624 Holster

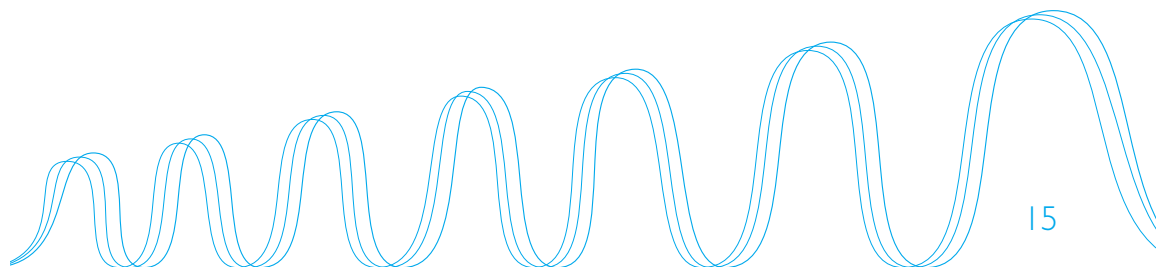
Leather holster for FA204. Includes heavy-duty metal clip for attaching to belt. Black color.

Stretch Your Budget With The New InTouch Pak!

Now configured with relays, the InTouch Pak features an FA404R receiver and pendant transmitter. Add reliable personal protection to any site with the InTouch Pak. See page 17 for details.

Why Supervise Pendants?

Most dealers prefer to install wireless transmitters that are fully supervised and automatically test themselves. However, many believe that pendants cannot be supervised because they are taken offsite. Inovonics Wireless strongly believes that all wireless transmitters, including pendants, should be supervised. Supervision safeguards against undetected loss of service due to end-user damage such as dropping the pendant repeatedly, exposing it to extreme temperatures, environments, or other similar events. Supervising pendants need not cause unnecessary reports to the central station. There are several ways to provide security to your customers and possibly reduce your liability. Call us for details—request Technical Note TNI032.



pendants



FA205D Belt Clip/Loop Transmitter Double-Button

To minimize false alarms, both buttons must be pressed simultaneously to transmit an alarm. LED flashes on all transmissions, including supervision, so the user is reassured that the unit is operating. Supervised pendant comes with belt clip/belt loop; it can also be easily mounted for fixed position signaling. Includes a customer-replaceable 3V lithium battery. Black color.

FA214 Keychain Transmitter Four-Button

Keychain size remote control with the range and reliability of 900MHz. For use with FA464DR or FA416 receiver family to provide sophisticated four-button remote-control. Ideal for opening/closing gates or doors, and similar applications. Includes a customer-replaceable 3V lithium battery. * FA116 programmer required.

FA205S Belt Clip/Loop Transmitter Single-Button

A smart design with simple, single button activation. LED flashes on all transmissions, including supervision so the user is reassured that the unit is transmitting. Supervised pendant comes with belt clip that can be converted to belt loop; it can also be easily mounted for fixed position signaling. Includes a customer-replaceable 3V lithium battery. Black color.



Easy access is an important feature of the FA205D. It comes with a belt clip that can be converted to a belt loop.

Model	Weight	Dimensions	Power	Battery Replacement ¹	Battery Life (avg.) ²
FA223S	1.4 oz.	2.2 × 1.9 × 0.72"	3.0V Lithium	BAT609	1-2 years
FA223D	1.4 oz.	2.2 × 1.9 × 0.72"	3.0V Lithium	BAT609	1-2 years
FA203S	1.7 oz.	3 × 1.6 × 0.72"	3.0V Lithium	BAT608	3-5 years
FA203D	1.7 oz.	3 × 1.6 × 0.72"	3.0V Lithium	BAT608	3-5 years
FA204	1.8 oz.	2.75 × 2 × 0.75"	3.0V Lithium	BAT607 ³	1-2 years
FA205S	2.1 oz.	3 × 1.6 × 1"	3.0V Lithium	BAT608	3-5 years
FA205D	2.1 oz.	3 × 1.6 × 1"	3.0V Lithium	BAT608	3-5 years
FA212	1.7 oz.	3 × 1.6 × 0.72"	3.0V Lithium	BAT608	3-5 years
FA214	1.7 oz.	3 × 1.6 × 0.72"	3.0V Lithium	BAT608	5-8 years (unsupervised)

1) Not all brands are equivalent. Please use only the Inovonics Wireless battery specified.

2) Unless otherwise noted, typical battery life shown is for supervised operation using recommended check-in times.

3) Due to differences in metallurgy and electrical characteristics, the only battery recommended for the FA204 pendant is the BAT607 battery supplied by Inovonics Wireless.

Operating Environment: 32 to 140° F (0 to 60° C), up to 95% relative humidity (non-condensing)





FA2605R



FA2603R

InTouch Pak

The Inovonics Wireless InTouch Pak is based on our exclusive Frequency Agile technology, which sets a new standard for add-on wireless products in both new and existing security installation. The 900MHz InTouch Pak offers 10 times more power than 300MHz systems. Based on 900MHz spread spectrum technology, the InTouch Pak offers more freedom with greater security than other technology can provide.

The InTouch Pak is available in two styles: the FA2603R, which includes a four-transmitter receiver with relays and a single-button white pendant transmitter; and the FA2605R which includes a four-transmitter receiver with relays and a black double-button belt clip transmitter. These are available at a special price when you buy the Pak.

Inovonics Wireless has over one million RF products installed all over the world. From bank employees to

retail clerks and school faculty, Inovonics Wireless has proven reliability you can count on whether it be a commercial or residential application.

InTouch Pak offers:

- 900MHz performance at a 300MHz price
- Longer range
- Greater reliability
- Full supervision

InTouch Pak FA2605R

Includes the FA404R four-transmitter receiver with relays and an FA205 belt clip transmitter.

InTouch Pak FA2603R

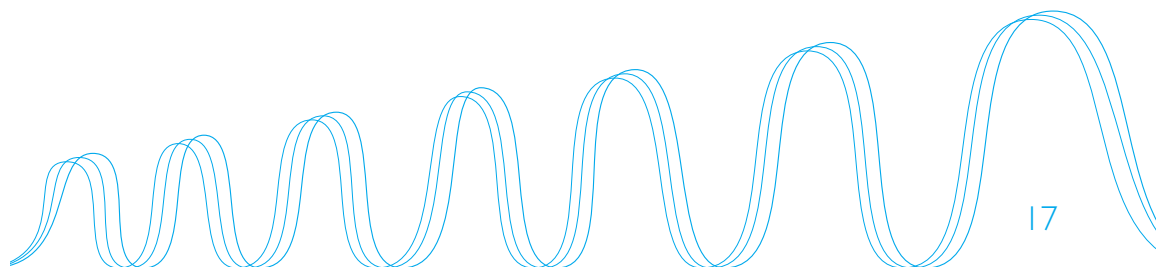
Includes the FA404R four-transmitter receiver with relays and the FA203 pendant.

Model	Weight	Dimensions	Power	Battery Replacement ¹	Battery Life (avg.) ²
FA2603R (Pendant)	1.7 oz.	3 x 1.6 x 0.72"	3.0V Lithium	BAT608	3-5 years
FA2605R (Pendant)	2.1 oz.	3 x 1.6 x 1"	3.0V Lithium	BAT608	3-5 years

Model	Weight	Dimensions	Outputs	Supported Transmitters	Power	Maximum Current Consumption
FA2603R (Receiver)	8.3 oz.	6.5 x 3.5 x 1"	2 ³	4	11-14 VDC	140 mA
FA2605R (Receiver)	8.3 oz.	6.5 x 3.5 x 1"	2 ³	4	11-14 VDC	140 mA

1) Not all brands are equivalent. Please use only the Inovonics Wireless battery specified.
 2) Unless otherwise noted, typical battery life shown is for supervised operation using recommended check-in times.
 3) One output dedicated to fault and cannot be used as an alarm output.

Operating Environment: 32 to 140° F (0 to 60° C), up to 95% relative humidity (non-condensing)





When it comes to receivers, no other manufacturer offers more configuration options than Inovonics Wireless. Choose from single-, four-, 16-, or 64-transmitter receivers, optional Form C relays or optional seven-segment display to meet your customers' toughest requirements.

No matter which you choose, each receiver features Inovonics Wireless Frequency Agile technology and is designed to minimize "nulls" or dead spots. In addition, our proprietary signal processing provides superior performance in noisy or harsh environments.

FA400 Remote Receiver

A powerful remote receiver that interfaces with the Inovonics Wireless Vision Plus panel and the DMP XR200 panel, supporting up to 200 transmitters with the XR200. Two receivers may be used when the installation requires extended range or the use of repeaters will accomplish similar results.

FA401 Single-Transmitter Receiver

Our value-priced single-transmitter receiver programs and supervises a single Inovonics Wireless FA transmitter. Receiver connects to any panel that supports a common

ground. Includes two outputs: one for alarm; one for fault. Perfect for adding a single panic button or pendant to a hardwire installation.

FA401R Single-Transmitter Receiver with Relays

Same as the FA401, but also includes Form C relays for each output to allow connection to any hardwire panel or to trigger sirens or annunciators for stand-alone wireless solutions. A fast and effective way to add a single panic button or pendant to any installation.

FA404 Four-Transmitter Receiver

Four-transmitter receiver with two outputs: one for alarm; one for fault. Perfect for installations requiring up to four fully supervised wireless transmitters.

FA404R Four-Transmitter Receiver with Relays

Same as the FA404, but also includes Form C relays for each output to allow connection to any hardwire panel or to annunciators for stand-alone wireless solutions. A fast and effective way to add up to four fully supervised 900MHz transmitters to any installation.

Model	Weight	Dimensions	Outputs	Transmitters Supported	Power	Maximum Current Consumption
FA400	7.5 oz.	6.5 x 3.5 x 1"	high-speed serial	dependent on panel	11-14 VDC	40 mA
FA401	7.5 oz.	6.5 x 3.5 x 1"	2 ¹	1	11-14 VDC	60 mA
FA401R	8.3 oz.	6.5 x 3.5 x 1"	2 ¹	1	11-14 VDC	140 mA
FA404	7.5 oz.	6.5 x 3.5 x 1"	2 ¹	4	11-14 VDC	60 mA
FA404R	8.3 oz.	6.5 x 3.5 x 1"	2 ¹	4	11-14 VDC	140 mA

1) One output dedicated to fault and can not be used as an alarm output.

NOTE: FA210W transmitters are not compatible with the FA401R or FA404R receivers.





FA416 Family

Quality design and improved features make it easier than ever to install wireless add-on products. FA416 receivers feature case tamper; improved styling, increased visibility to alarm and trouble LEDs, better wiring options, and flexible programming. All FA416s support both signal level and signal margin monitoring with the FA116 programmer; which is recommended for full functionality of the receiver. Inovonics Wireless FA416 receiver family allows you to add up to 16-fully supervised, 900MHz Frequency Agile transmitters to any site.

FA416 Four-Output/16-Transmitter Receiver

Includes four outputs for alarm or specific trouble conditions and one additional global trouble output. Program up to four transmitters

with default settings or 16 transmitters with the FA116 programmer. Convenient knock-out allows wiring through back of case, and snap-on/pry-off cover allows for easy installation. Programmer receptacle and reset button are in front for easy access.

FA416R Four-Output/16-Transmitter Receiver with Relays

Same as the FA416 but includes mechanical Form C relays for connecting to any panel or for stand-alone wireless applications.

FA416D Four-Output/16-Transmitter Receiver with Display

Same as the FA416 but includes two-digit LED display to show status of all 16 transmitters. It displays fault and alarm information

so the exact fault or alarm can be determined at a glance, even by your customer. Information stored in these "smart" receivers includes 16-factory defaulted transmitter types.

FA416DR Four-Output/16-Transmitter Receiver with Display and Relays

Combines the features of both the FA416R and FA416D.

New Latching Display Upgrade

Now, with a simple micro upgrade, you can store alarm memory on the display of the FA416D and the FA464DR without latching the outputs of the receiver. The display is cleared when the receiver reset is pressed. Order MPU416LD, programming remains intact.

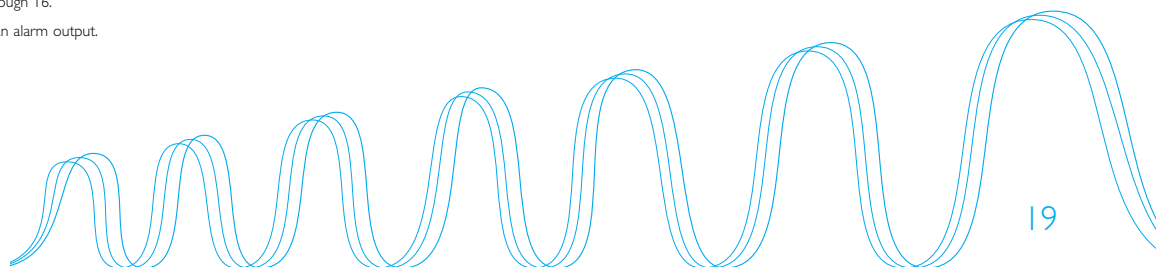


FA464DR 16-Output/64-Transmitter Receiver

Inovonics Wireless' most powerful slave receiver allows 64-fully supervised transmitters to be added to any installation. Each of the 16-programmable outputs provides a Form C relay for flexibility and ease of installation. In addition, the two-digit display and LEDs for each output display the status of all points and outputs quickly and efficiently.

Model	Weight	Dimensions	Outputs	Transmitters Supported	Power	Maximum Current Consumption
FA416	8.8 oz.	6.5 x 3.5 x 1"	5 ²	16 ¹	11-14VDC	60 mA
FA416R	10.8 oz.	6.5 x 3.5 x 1"	5 ²	16 ¹	11-14VDC	260 mA
FA416D	9.4 oz.	6.5 x 3.5 x 1"	5 ²	16	11-14VDC	95 mA
FA416DR	11.4 oz.	6.5 x 3.5 x 1"	5 ²	16	11-14VDC	295 mA
FA464DR	34 oz.	11 x 8.5 x 1.75"	17 ²	64	12-17VDC	980 mA

1) FA116 Programmer required to program points five through 16.
 2) One output dedicated to fault and can not be used as an alarm output.



wireless survey kit



Site Design & Demonstration Made Easy

KEY FEATURES

- Survey any facility quickly and easily
- Completely portable
- Rechargeable battery operates system for up to six hours
- Determine optimum location for transmitters, repeaters, and receivers
- Demonstrate the range of Frequency Agile transmitters and close the sale

FA715 Wireless Survey Kit

A portable, easy-to-use kit that allows you to take the guesswork out of your next wireless bid with a quick and accurate site survey. You can easily determine if repeaters will be needed, and if so, determine the optimum location for each.

With the FA715 you can also see, hear, and demonstrate the superior range, performance, and reliability of Inovonics Wireless. Let your customer experience the benefits of Frequency Agile technology in person. The FA715 is powered by a rechargeable battery and is completely portable.

FA715 Components

Transformer.

Powers battery charger when plugged in. The Survey Kit can be operated by 110VAC or by self-contained battery.

FA116 Programmer.

Programs transmitters, diagnoses receivers and transmitters and determines signal strength.

Instructions.

A step-by-step detailed guide through the survey procedure.

ACC631 Continuous Alarm Trigger.

Turns site surveys into a one-person job.

FA210 Universal Transmitter.

Activated by ACC631, the FA210 sends a near-continuous stream of signals to the receiver.

FA416D Receiver.

Processes radio signals from transmitters and displays status.

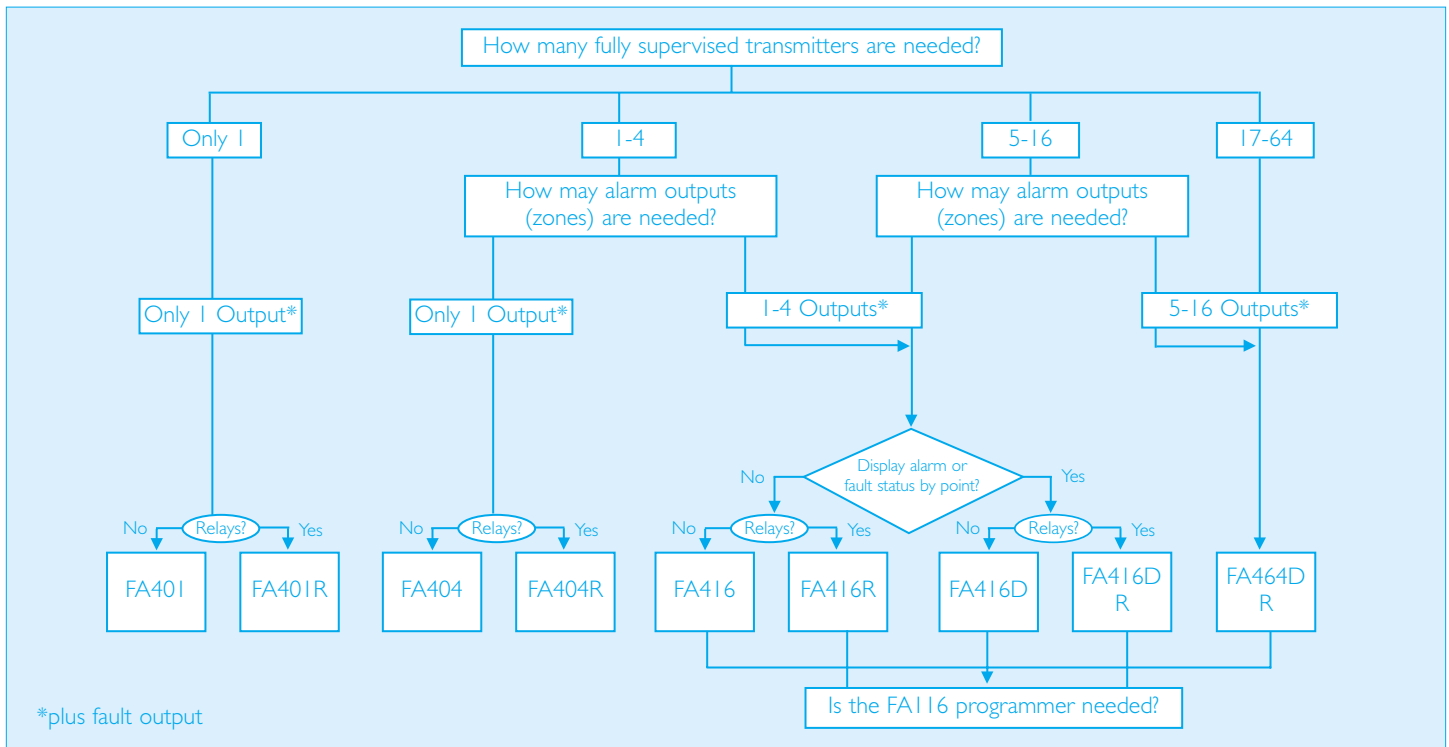
How To Order

The FA715 Wireless Survey Kit is available for purchase or as a loaner for up to two weeks —You pay only the cost of shipping. Call for details. For added convenience and increased accuracy, be sure to add the optional FA250 High Power Transmitter with an extra ACC631 trigger to the kit. The FA250 closely simulates the high transmit power of the Inovonics Wireless FA575 High Power Repeater.



Demonstrate the superior range and reliability of Inovonics Wireless with the FA715 Survey Kit.

Step One: Determine the Appropriate Receiver for Your Application



Step Two: Do I need a programmer?

TABLE A: TRANSMITTERS SUPPORTED

Receiver	Default Settings	
	N/O	N/C
FA416	2	2
FA416R	2	2
FA416D	6	10
FA416DR	6	10
FA464DR	30	34

TABLE B: TRANSMITTER SWITCHES BY TYPE

Description	Switch Type
FA210, FA250 Universal	N/O or N/C
FA210W Door/Window	N/O or N/C + (Internal Contact ¹)
FA202	N/C
FA203S/D Panic	N/O
FA205S/D Panic	N/O
FA206DS/I/S PIR	N/C
FA207 Glassbreak	N/O
FA209 Bill Trap	N/O
FA212 Two-channel Transmitter	N/O
FA214 Remote	N/O
FA216H/L Temperature	N/O

1) Not compatible with FA401 or FA404 receivers.

An FA116 Programmer will be required for FA416 and FA464DR installations assuming any of the following are true:

- You need to survey the site for signal strength and/or installation of an FA575 Repeater.
- You're installing an FA200W or FA210W wide-gap transmitter or end-of-line resistor.
- You're installing an FA214 or FA212 four-button transmitter.
- You need to customize zones or change default programming. Each FA416 and FA464DR receiver is factory programmed to support a specific number of normally open (N/O) and normally closed (N/C) transmitters (see Table A). Changing default settings will allow you to alter the ratio of N/O or N/C transmitters supported by each receiver. To determine transmitter switch type, refer to Table B.
- You need to assign trouble conditions to specific zones.
- You need to customize your supervision.



FA116 Executive Programmer

With the FA116 Executive Programmer you can diagnose receivers and determine signal margin and signal level for all points. By following simple menu prompts, you can easily "zone" receiver outputs for alarm assignment, low battery, tamper, and/or point missing information for each individual installation. In point status mode, the signal level and signal margin of each transmitter can be monitored, to help ensure successful operation after you leave the site. It's the only programmer you need for all FA416 series and FA464DR Frequency Agile slave receivers.



ACC603M Metal Chain Necklace for FA203 Pendant

ACC603P Plastic Neckcord for FA203 Pendant

ACC605-BK Belt Clip for FA205 Transmitter

Includes two screws for connecting to FA205 transmitter.

ACC608 Siren

Indoor siren with built-in driver for use with control panel. (Moose # MPI 36)

ACC610 14VAC/20VA Transformer

Replacement for the C2020, CP2130, and FA575. Note that a transformer is provided with the C2020, CP2130, and the FA575.

ACC617 Control Board

C2020 - board replacement. No housing.

ACC620 Programming Cable

For connecting transmitter to programming device and programming transmitters. A programming cable is provided with every programming device.

ACC623W Wristband

Converts the FA223S and FA223D to a wristband-style transmitter that can be worn like a watch. This durable nylon wristband is ideal for

personal panic applications where the transmitter needs to be within easy reach.

ACC624 Holster

Leather holster for the FA204 pendant. Includes heavy-duty metal clip for attaching to belt. Black color.

ACC625 Wireless Holdup Switch

Simple, yet extremely reliable wireless pull switch for holdup applications. Simply connect to a FA200, FA210, or FA250 universal transmitter. Be sure to supervise connecting wire with EOL resistor for true security.

ACC630 Transfer Programmer

A time saver that enables you to reprogram any transmitter at an installation without moving it. Start button and LEDs guide you through the steps.

ACC631 Continuous Alarm Trigger Module

Great tool for site surveys and demonstrations. Connected to a universal transmitter, the ACC631 automatically creates alarm and restoral conditions every 8 seconds, causing the transmitter to send a near-continuous stream of signals. Included with the FA715 Wireless Survey Kit.

ACC640 NEMA 4 Plastic Enclosure

This general purpose all-weather enclosure that measures 7" x 7" x 3".

ACC660 Assorted Lens Pack

Package of five assorted lens types for the FA206S Sharpshooter PIR. Each package contains Standard, Pet Alley, Extra Wide Angle, Long Range, and Curtain.

ACC661 Pet Alley Lens Pack

Package of five Pet Alley lenses for the FA206S Sharpshooter PIR.

ACC662 Mirror for PIR

Ideal for installing the FA206S Sharpshooter PIR, this temporary mount mirror allows you to easily tune and install the PIR. You see what it sees.

ACC663 Ceiling mount for PIR

Convert the FA206S Sharpshooter PIR into a wireless ceiling mount PIR with this easy-to-use bracket.

ACC664 Metal Cage for PIR

Perfect for protecting the FA206S Sharpshooter PIR in applications such as gymnasiums, recreation rooms, and similar areas.

ACC671 Long Range Mirror

Provides 120 ft. range for the FA206DS PIR.

FA516 LED Display with Cover

LED display provides two-digit display and plugs on to the header on the FA416 receiver; converting an FA416 or FA416R into an FA416D or FA416DR, respectively.

FA541 Individual Relay

Individual Form C relay module for use with any FA receiver. Includes terminal block for easy installation. The FA541B package of eight individual FA541 relays is a must for every tool box.





BAT601B
4.5V Batteries

Package of four BAT601 batteries used in both FA200(W) and C200(W) transmitters.

BAT602
4Ah - 12V Battery

Backup battery for the C2020 and CP2130 control panels.

BAT603
1.2Ah - 12V Battery

Backup battery for the FA525 and FA575 repeaters (optional).

BAT604
3.0V Battery

Duracell DL123A lithium battery (1.4Ah rated) used in FA100, FA130, FA202, FA206I, FA206S, FA206DS, FA207, FA210, FA216, and FA250. Available from Inovonics Wireless, most distributors, and from many retail outlets.

BAT605
3.6V Battery

Tadiran TL2150 lithium (0.8Ah rated) used only in the FA206. Available from Inovonics Wireless and other wholesale suppliers.

BAT606
3.0V Battery

Lithium battery (1.4Ah rated) with leads spot welded to posts. For FA100s shipped before January 1997 and FA102.

BAT607
3.0V Battery

Customized lithium battery (0.8Ah rated) used in FA204. Due to differences in metallurgy and electrical characteristics, it is the only battery available for the FA204 pendant.

BAT608
3.0V Battery

CR2 lithium battery (0.8Ah rated) for FA203, FA205, FA113, FA212, FA214, and ACC631.

BAT609
3.0V Battery

Renata CR2450N lithium coin cell battery (0.5Ah rated) for FA209 and FA223S.

Inovonics Wireless Product(s) Part #	Using Battery	Chemistry	Voltage	Rated Capacity	Manufacturer ¹	Mfg Part #
BAT601	C200(W), FA200(W)	Alkaline	4.5 volts	1.0 amp-hr	Inovonics Wireless ²	
BAT602	C2020, CP2130	Lead acid "gel cell"	12 volts	4.0 amp-hr	Various	Various
BAT603	FA525, FA575	Lead acid "gel cell"	12 volts	1.2 amp-hr	Various	Various
BAT604	FA100 ³ , FA130, FA202, FA206I, FA206S, FA206DS, FA207, FA210(W), FA216, FA250, ACC630	Lithium, Manganese Dioxide	3.0 volts	1.4 amp-hr	Duracell, Panasonic	DL123A CR123A
BAT605	FA206, C206	Lithium, Thynol-Chloride	3.6 volts	0.8 amp-hr	Tadiran	TL2150
BAT606	FA100 ³ , FA102	Lithium, Manganese Dioxide	3.0 volts	1.4 amp-hr	Duracell ⁴	DL123A ⁴
BAT607	FA204	Lithium, Manganese Dioxide	3.0 volts	0.8 amp-hr	Sanyo	Inovonics Wireless ⁵
BAT608	FA203(D&S), FA205(D&S), FA113, FA212, FA214, ACC631	Lithium, Manganese Dioxide	3.0 volts	0.8 amp-hr	Sanyo, Panasonic	CR2
BAT609	FA209, FA223S, FA223D	Lithium, Manganese Dioxide	3.0 volts	0.5 amp-hr	Renata Sanyo	CR2450N CR2450

1) Not all brands are equivalent! Impedance varies considerably in lithium batteries. Please use only the lithium batteries specified.
 2) Produced specifically for Inovonics Wireless, the BAT601 is three standard AAA batteries spot-welded together and encased in plastic.
 3) In early 1997, the battery in the FA100 was converted from the BAT606 to the BAT604.
 4) Inovonics Wireless has leads soldered to the DL123A to create our BAT606.
 5) Due to differences in metallurgy and electrical characteristics, the only battery recommended for the FA204 pendant is the BAT607 battery supplied and labeled by Inovonics Wireless.

warranty & disclaimer

Inovonics Wireless Corporation ("Inovonics Wireless") warrants its products ("product" or "products") to conform to its own specifications and to be free of defects in materials and workmanship under normal use for a period of twenty-four (24) months from the date of manufacture. Within the warranty period, Inovonics Wireless will repair or replace, at its option, all or any part of the warranted product. Inovonics Wireless will not be responsible for dismantling and/or reinstallation charges. To exercise the warranty, the User ("User;" "Installer" or "Consumer") must be given a Return Material Authorization ("RMA") number by Inovonics Wireless. Details of shipment will be arranged at that time.

This warranty does not apply in cases of improper installation, misuse, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than Inovonics Wireless.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, expressed or implied, including any warranty of merchantability or fitness for a particular purpose. Inovonics Wireless will not be liable for any consequential or incidental damages for breach of this warranty or any other warranties.

This warranty will not be modified, varied or extended. Inovonics Wireless does not authorize any person to act on its behalf to modify, vary or extend this warranty. This warranty will apply to Inovonics Wireless products only. All other products, accessories or attachments used in conjunction with Inovonics Wireless equipment, including batteries, will be covered solely by their own warranty, if any. Inovonics Wireless will not be liable for any direct, incidental or consequential damage or loss whatsoever, caused by the malfunction of its product due to products, accessories, or attachments of other manufacturers, including batteries, used in conjunction with Inovonics Wireless products.

This warranty does not warrant the replacement of batteries that are used to power Inovonics Wireless products.

The user recognizes that a properly installed and maintained security alarm system may only reduce the risk of events such as burglary, robbery, personal injury, and fire. It does not ensure or guarantee that there will be no death, personal damage and/or damage to property as a result.

Inovonics Wireless does not claim that the product may not be compromised and/or circumvented, or that the product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the product will in all cases provide adequate warning or protection. Inovonics Wireless shall have no liability for any death, injury or damage, however incurred, based on a claim that Inovonics Wireless products failed to function.

However, if Inovonics Wireless is held liable, directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, Inovonics Wireless' maximum liability will not in any case exceed the purchase price of the product, which will be fixed as liquidated damages and not as a penalty, and will be the complete and exclusive remedy against Inovonics Wireless.

Warning: The user should follow all installation, operation and maintenance instructions.

The user is strongly advised to conduct product and systems tests at least once each week. Changes in environmental conditions, electric or electronic disruptions and tampering, may cause the product to not perform as expected.

Warning: Inovonics Wireless warrants its product to the user. The user is responsible for exercising all due prudence and taking necessary precautions for the safety and protection of lives and property wherever Inovonics Wireless products are installed. Inovonics Wireless strongly advises the user to program products to be supervised whenever used in applications affecting life safety. Users are warned that unsupervised devices are subject to undetected failure due to malfunction, battery failure, tampering, or changes in environment.

Return policy

Customers desiring to return products to Inovonics Wireless for credit are required to obtain prior company approval. Products accepted for return will be subject to a restocking fee of up to 25% and factory acceptance of undamaged goods. No credit will be issued for damaged products. No returns permitted after 30 days. All freight charges relative to returned product, outgoing and incoming, will be billed to the customer.



Receiver Specifications

Model	Weight	Dimensions	Outputs	Transmitters Supported	Power ¹	Maximum Current Consumption
FA400	7.5 oz.	6.5 x 3.5 x 1"	HIGH-SPEED SERIAL	DEPENDENT ON PANEL	11-14 VDC	40 mA
FA401	7.5 oz.	6.5 x 3.5 x 1"	1	1	11-14 VDC	60 mA
FA401R	8.3 oz.	6.5 x 3.5 x 1"	1	1	11-14 VDC	140 mA
FA404	7.5 oz.	6.5 x 3.5 x 1"	1	4	11-14 VDC	60 mA
FA404R	8.3 oz.	6.5 x 3.5 x 1"	1	4	11-14 VDC	140 mA
FA416	8.8 oz.	6.5 x 3.5 x 1"	4	16 ⁸	11-14 VDC	60 mA
FA416D	9.4 oz.	6.5 x 3.5 x 1"	4	16	11-14 VDC	95 mA
FA416R	10.8 oz.	6.5 x 3.5 x 1"	4	16 ⁸	11-14 VDC	260 mA
FA416DR	11.4 oz.	6.5 x 3.5 x 1"	4	16	11-14 VDC	295 mA
FA464DR	34 oz.	11 x 8.5 x 1.75"	16	64	12-17 VDC	980 mA
FA422	5.3 oz.	6.5 x 3.5 x 1"	SERIAL	16	11-14 VDC	60 mA

Arming Devices

Model	Dimensions	Power ¹	Battery Replacement ²	Typical Battery Life ²
FA100	5.6 x 1.8 x 0.8"	3.0V LITHIUM	BAT604 ³	8 YEARS (UNSUPERVISED)
FA130	8.25 x 4.5 x 1.125"	3.0V LITHIUM	BAT604	3-4 YEARS (UNSUPERVISED)
KPI03	8.25 x 4.5 x 1.125"	FROM PANEL	N/A	N/A
FA113	1.6 x 3 x 0.75"	3.0V LITHIUM	BAT608	8 YEARS (UNSUPERVISED)

Transmitter Specifications

Model	Dimensions	Power ¹	Battery Replacement ²	Typical Battery Life ²
FA200	6 x 1.25 x 0.75"	4.5V ALKALINE PACK	BAT601	3-4 YEARS
FA200VV	6 x 1.25 x 0.75"	4.5V ALKALINE PACK	BAT601	3-4 YEARS
FA201	6 DIAMETER x 1.75"	9.0V ALKALINE	DURACELL MN 1604 ⁴	1 YEAR
FA202	5.5 DIAMETER x 2.63"	3.0V LITHIUM	BAT604	3-5 YEARS
FA203D	3 x 1.6 x 0.72"	3.0V LITHIUM	BAT608 ⁵	3-5 YEARS
FA203S	3 x 1.6 x 0.72"	3.0V LITHIUM	BAT608 ⁵	3-5 YEARS
FA204	2.75 x 2 x 0.75"	3.0V LITHIUM	BAT607 ⁶	1-2 YEARS
FA205D	3 x 1.6 x 1"	3.0V LITHIUM	BAT608 ⁵	3-5 YEARS
FA205S	3 x 1.6 x 1"	3.0V LITHIUM	BAT608 ⁵	3-5 YEARS
FA206I	5.55 x 2.7 x 2.2"	3.0V LITHIUM	BAT604 ⁷	2 YEARS
FA206S	3.75 x 3 x 2.5"	3.0V LITHIUM	BAT604 ⁷	2 YEARS
FA206DS	5.75 x 3.75 x 2.5"	3.0V LITHIUM	BAT604 ⁷	2 YEARS
FA207	3.1 x 4.75 x 2.75"	3.0V LITHIUM	BAT604 ⁵	3 YEARS
FA209	2.6 x 6.1 x 0.52"	3.0V LITHIUM	BAT609 ⁵	1-2 YEARS
FA210	3.5 x 1.7 x 0.9"	3.0V LITHIUM	BAT604 ⁵	4-5 YEARS
FA210M	3.5 x 1.7 x 0.9"	3.0V LITHIUM	BAT604 ⁵	4-5 YEARS
FA210VV	3.5 x 1.7 x 0.9"	3.0V LITHIUM	BAT604 ⁵	4-5 YEARS
FA212	3 x 1.6 x 0.72"	3.0V LITHIUM	BAT608 ⁵	3-5 YEARS
FA214	3 x 1.6 x 0.72"	3.0V LITHIUM	BAT608 ⁵	5-8 YEARS (UNSUPERVISED)
FA216	3.5 x 1.7 x 0.9"	3.0V LITHIUM	BAT604 ⁵	4 YEARS
FA223D	2.2 x 1.9 x 0.72"	3.0V LITHIUM	BAT609	1-2 YEARS
FA223S	2.2 x 1.9 x 0.72"	3.0V LITHIUM	BAT609	1-2 YEARS
FA250	6 x 1.25 x 0.75"	3.0V LITHIUM	BAT604 ⁵	1 YEAR
FA575	7 x 7 x 3"	14 VAC/20VA TRANSFORMER INCLUDED	(BAT603) BACK-UP BATTERY	N/A

Operating Environment: 32 to 140° F (0 to 60° C), up to 95% relative humidity (non-condensing)

IMPORTANT NOTES:

- One battery is included with all transmitters, except the FA201, FA202 and FA209, which are provided with two batteries.
- Inovonics Wireless recommends that all transmitters be programmed for supervision. Unless otherwise noted typical battery lives shown are for supervised operation using the recommended check-in times (typically 1 minute to 5 minutes). Please realize that battery vendors do NOT warranty the life of their batteries, hence, Inovonics Wireless warranty specifically excludes batteries and battery life is not guaranteed.
- In early 1997, the battery in the FA100 was converted from the BAT606 to a BAT604.
- The Duracell MNI1604 alkaline battery is the only acceptable battery for use in the ESL 361 smoke detector.
- The construction and impedance of lithium batteries varies by manufacturer. Inovonics Wireless strongly recommends that only the manufacturer model numbers listed in the Battery Cross-Listing Table be used with Inovonics Wireless transmitters.
- Due to differences in metallurgy and electrical characteristics, the only battery recommended for the FA204 pendant is the BAT607 battery supplied by Inovonics Wireless.
- The battery life of a PIR/Transmitter is highly dependent on "traffic" in its coverage area. PIRs installed in reception areas and similar areas may experience reduced battery life.
- Must use FA116 Programmer to program more than four transmitters.

Name

Title

Company

Address

City

State

Zip

Tel.

Fax

E-mail

Description Qty.

Description Qty.

Catalog & Price List

- Inovonics Wireless Product Catalog _____
- Current Price List _____

Ad Reprints

- "If You Think Breaking Into a Safe..." _____
- In Touch Ad _____

Flyers

- "3 Key Reasons Why Inovonics Wireless" _____
- "Top Ten Technical Questions" _____
- "Discover the Range" _____

Technical Bulletins

- FA401 / FA404 Receiver _____
- FA416 Receiver _____
- FA422 Receiver for Radionics Panel _____
- FA464DR Receiver _____
- FA209 Wireless Billtrap _____
- FA202 Smoke Detector _____
- FA223S & FA223D Water-Resistant Pendants _____
- FA575 High Power Repeater _____
- Selecting a Slave Receiver _____
- Pendants _____
- PIR's and Motion Sensors _____
- Door/Window Transmitters _____
- Wireless Survey Kit _____
- Full Technical Binder (\$19.95) _____
Includes manuals, cut sheets and Technical presentation.
A must have!

Dealer Program Information

- Making Schools Safe brochure* _____
- Keeping Employees Safe* _____
- Wireless Guardian Spec Sheet _____
- Wireless Guardian Commercial Use Brochure* (part #825C) _____

* Fees may be assessed for large quantities



architects/engineers specifications

The contractor shall provide fully supervised 900MHz spread spectrum wireless equipment. The wireless equipment shall use a frequency hopping technique that sends redundant messages on any alarm across a bandwidth of at least 10MHz to provide immunity from interference and ensure reliable communication. A repeater product shall be available that allows at least 25 repeaters to be added to the site to accommodate future expansion of the facility.

The wireless equipment shall be offered with sensors including a PIR, glassbreak detector, dual-button pendant and panic transmitter (to minimize false alarms), billtrap transmitters, and universal transmitters. Each transmitter, including all sensor/transmitters, pendants, and panic transmitters shall transmit a supervisory message at least every 4 minutes, and provide low battery detection. Universal transmitters must support an end-of-line resistor to supervise the wire between the universal transmitter and switch or contact to which it is wired.

Please contact us for complete Architect/Engineering specifications.

inovonics wireless applications

Because of superior range and reliability, high power repeaters provide the ability to add wireless in REALLY BIG sites. Inovonics Wireless products have been utilized in a wide range of applications, including:

- Corporate headquarters
- Financial institutions such as banks, credit unions, stock brokerages and trading centers
- Government facilities, including courthouses and detention centers
- Insurance centers
- Military facilities
- Museums
- Shopping malls and other retail applications
- Residential applications





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