



inovonics®
product catalog 2010

About Inovonics®

Inovonics has more than twenty years of leadership in the design and development of radio frequency electronics, serving the commercial building market with security, submetering, life safety, environmental, and sensor and control applications.

Our Values

Inovonics values honesty and integrity, believing these values are best served when the proper balance between career, community involvement and personal life is maintained. Inovonics values diversity of thought and background, and candor throughout all levels of the company, philosophies that continually focus our efforts to creatively meet the needs of our customers. Inovonics believes that quality begins with customer expectations and ends with customer satisfaction, and that quality is best measured by the customer's success. Above all, Inovonics believes that the company's success rests squarely on the competency, creativity, teamwork, diversity, initiative and integrity of its employees.

Our Technology

Inovonics' commercial grade technology provides the most powerful and affordable wireless sensor network available to the commercial building market. Self-healing and self-configuring, the EchoStream® Commercial Mesh Network provides the robust wireless coverage necessary to operate in the most challenging commercial environments. Multiple applications can run on the same wireless backbone, and virtually any size network can be created reliably and economically. Networks range from a single panic button to very large wireless sensor networks serving sprawling multi-building campuses.

Our Leadership

Inovonics relies on leadership that empowers employees to embrace and amplify our core values. Inovonics' President, Mark Jarman, fulfills that role with more than sixteen years of experience in business development, mergers and acquisitions, investor relations, and business management. Inovonics is a part of Roper Industries, Inc. (NYSE: ROP), a diversified industrial growth company providing engineered products and solutions for global niche markets.

Our History

Founded in 1986 to design and manufacture commercial grade wireless products, Inovonics has developed three generations of wireless sensor network technology. Due to the reliability of Inovonics wireless sensor networks, the company has been trusted to monitor and protect some of the world's most sensitive sites. More than five million Inovonics devices have been installed in commercial buildings, including banks, retail outlets, multifamily housing complexes, world heritage sites and health care facilities around the world.



Table of Contents

Transmitters

- 5 Pendant Transmitters
- 7 Universal Transmitters
- 9 Motion Detectors
- 11 Specialized Transmitters

Infrastructure

- 13 Receivers
- 15 Repeaters
- 17 System Tools
- 19 Systems

Specifications

- 21 Specifications
- 21 Accessories

Why Inovonics Wireless is Best

Reliability

With more than two decades of experience designing and deploying wireless sensor networks, you can count on Inovonics products to deliver your message. The EchoStream Commercial Mesh Network features enhanced supervision flexibility, sophisticated jam detection, multi-featured check-in messaging, and the most robust backbone on the market, ensuring reliability in challenging commercial environments. EchoStream comfortably meets the demands of an increasingly cluttered wireless world.

Flexibility

The flexibility of wireless is a necessity in today's dynamic commercial environments. The self-configuring EchoStream Commercial Mesh Network allows you to adapt to changing floor plans and requirements in a matter of minutes, with little or no disruption, and without modifying existing architecture. New sensors can be added to the network as fast as they can be mounted.

Scalability

The EchoStream Commercial Mesh Network's backbone of intelligent repeaters can extend coverage to very large areas supporting many EchoStream devices. An installation can easily scale from a small retail shop to a sprawling multi-building commercial facility. An investment in the EchoStream Commercial Mesh Network is an investment in the future of your premises; with multiple application capability, the same network you install today for a security application can be leveraged in the future for environmental monitoring and sensor and control.



Advantages of EchoStream

With unparalleled interference immunity and the ability to support hundreds of sensors, the EchoStream Commercial Mesh Network sets a new standard for performance and reliability in a wireless sensor network.

A significant advance over previous wireless technologies, EchoStream enhances network performance by employing advanced modulation techniques to increase message reliability. EchoStream products feature wireless registration, flexible receiver options, and a sophisticated site survey kit. A software development kit is also available, allowing software engineers to develop user-specific applications.

The EchoStream Commercial Mesh Network is designed to support multiple applications on a single network, as well as two-way sensors. With hundreds of thousands of devices already deployed in the European and United States markets, EchoStream's performance and reliability is field proven.

Commercial Mesh Network

As the leading provider of commercial grade wirelessly enabled applications, Inovonics has developed a scalable wireless mesh network specifically for commercial applications. The Inovonics Commercial Mesh Network offers customers the most cost-effective solution for a wide range of applications, along with an unmatched network infrastructure capable of handling multiple applications such as security, panic/duress, energy conservation, and a wide range of other sensor and control-based applications.

The Inovonics Commercial Mesh Network is a radio platform that leverages our third-generation radio technology with advanced network architecture to provide enhanced capabilities:

- Improved wireless range
- Enhanced reliability
- Multiple applications leveraging the same radio frequency (RF) network
- Two-way communications
- Greater scalability

The Commercial Mesh Network is comprised of the various transmitters, signal repeaters, a receiver, and a wide range of head-end devices that provide application logic, as well as the user interface. Network components will depend on the type of system supported.



Pendant Transmitters

Through superior range and reliability, Inovonics EchoStream pendants offer virtually limitless opportunities for real world applications. Worn on a necklace, belt clip, wristband, or mounted in a fixed location, these lightweight, versatile pendants can be adapted to a wide range of installations. They can be fully supervised to ensure reliability, are available with single or double-button activation, and include a 3V lithium battery.





EE1223D - Double-button, water-resistant pendant transmitter

- Double-button design provides protection against accidental activation
- Weighs less than 40gm
- Neck cord and belt clip included
- EN50131 Security Grade 2; EN50130 Environmental class II compliance



EE1223S - Single-button, water-resistant pendant transmitter

- Simple, single-button activation
- Weighs less than 40gm
- Neck cord and belt clip included



EE1233D - Double-button, pendant transmitter

- Double-button design provides protection against accidental activation
- Neck cord included
- Easily mounted for fixed position signaling



EE1233S - Single-button, pendant transmitter

- Simple, single-button activation
- Neck cord included
- Easily mounted for fixed position signaling



EE1235D - Double-button, belt clip pendant transmitter

- Double-button design provides protection against accidental activation
- Belt clip included
- Easily mounted for fixed-position signaling



EE1235S - Single-button, belt clip pendant transmitter

- Simple, single-button activation
- Belt clip included
- Easily mounted for fixed-position signaling



EE1236D - Double-button, three condition belt clip pendant *

- Activates three different alarm conditions
- Belt clip included
- Easily mounted for fixed-position signaling



EE1238D - Double-button, dual condition belt clip pendant *

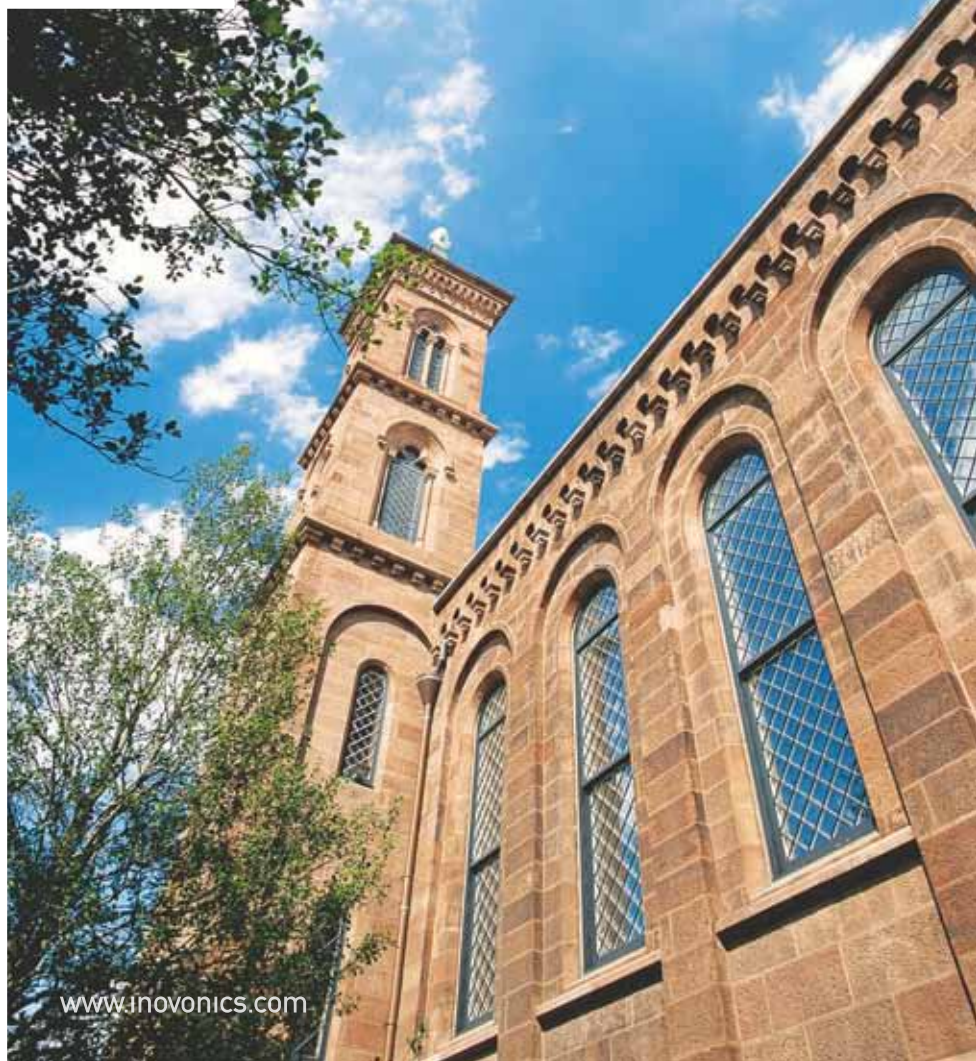
- Activates two different alarm conditions
- Belt clip included
- Easily mounted for fixed-position signaling

* Requires use of a serial receiver or network coordinator and application designed to support advanced functionality.



Universal Transmitters

Make nearly any normally open/normally closed (NO/NC) sensor wireless! These versatile transmitters provide superior range and reliability, making them perfect for commercial or domestic installations. In addition to conventional door contacts, consider using Inovonics universal transmitters with shock sensors, holdup buttons, pressure mats, temperature sensors, status relays, photo electronic beams or other binary output devices. These universal transmitters can be fully supervised, include a battery that provides up to five years of operation, and a mounting bracket for quick and easy installation.





EE1210 - Single input universal transmitter

- For use with almost any standard NO/NC contact or sensor
- Includes case tamper protection



EE1210W - Door/window transmitter with reed switch

- Contains wired input and magnetic reed switch input
- Built-in magnetic reed switch that supports up to a 15mm gap
- For use with any standard NO/NC contact or sensor
- Includes case tamper protection



EE1212 - Dual input universal transmitter *

- Supports dual inputs
- For use with any standard NO/NC contact or sensor
- Includes case tamper protection



EE1215 - Universal transmitter with wall tamper

- Screw closure housing and wall tamper switch provide additional security
- For use with any standard NO/NC contact or sensor
- Includes both case and wall tamper protection
- EN50131 Security Grade 2; EN50130 Environmental class II compliance



EE1215W - Door/window transmitter with wall tamper and reed switch

- Built-in magnetic reed switch that supports up to a 15mm gap
- Screw closure housing and wall tamper switch provide additional security
- For use with any standard NO/NC contact or sensor
- Includes both case and wall tamper protection
- EN50131 Security Grade 2; EN50130 Environmental class II compliance



EE1216 - Dual input transmitter with wall tamper *

- Supports dual inputs
- Screw closure housing and wall tamper switch provide additional security
- For use with any standard NO/NC contact or sensor
- Includes both case and wall tamper protection
- EN50131 Security Grade 2; EN50130 Environmental class II compliance

* Requires use of a serial receiver or network coordinator and application designed to support advanced functionality.



Motion Detectors

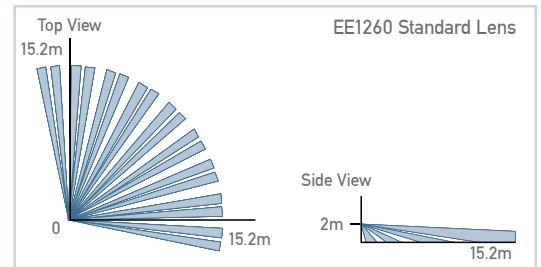
Motion detectors combine motion sensing with Inovonics wireless technology for indoor installations. They feature digital signal processing to recognize human signature movement, which reduces false alarms. All motion detectors can be fully supervised, include a lithium battery, provide case tamper protection, and have an attractive design to blend into any environment. In addition to intrusion applications, motion detectors are appropriate for energy conservation and occupancy applications.





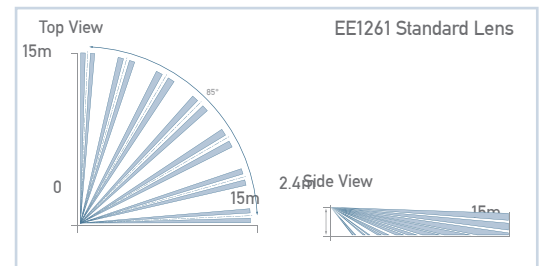
EE1260 - Wall mount motion detector

- For commercial and high-end domestic applications
- Low current detector is highly sensitive to moving infrared radiation
- Features increased immunity to causes of false activation
- Accessory lenses available



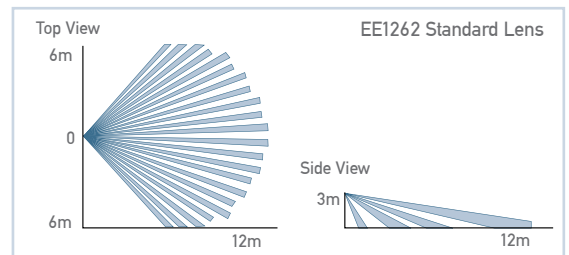
EE1261 - Four element motion detector

- Case tamper and back tamper switches
- Highly sensitive four element motion sensor with pet immunity (15Kg/30cm)
- Selectable sleep timer duration
- Fixed and variable sleep timer settings



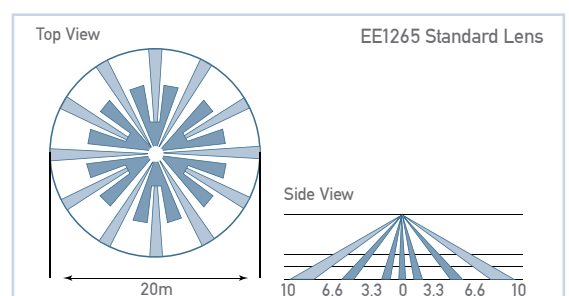
EE1262 - Motion detector with pet immunity

- For residential and low traffic commercial applications
- Features Pet Friendly® pet immunity for animals up to 13.6kg
- Optional swivel mount bracket and ceiling mount available
- Uses advanced signal processing to provide false activation immunity
- 90 second sleep time



EE1265 - 360° Ceiling mount motion detector

- Wireless four-element passive infrared intrusion detector for use in ceiling mount applications
- Equipped with a special hard lens that provides wide coverage patterns even at low mounting heights
- Low current detector is highly sensitive to moving infrared radiation
- Features increased immunity to causes of false activation





Specialized Transmitters

Specialized transmitters by Inovonics can be used for unique security, temperature, custom, and other monitoring applications. All specialized transmitters can be fully supervised. Some specialized transmitters require the use of a serial receiver and application designed to support advanced functionality.





EE1242 - Smoke detector transmitter

The Inovonics EE1242 smoke detector utilizes GE Interlogix™ technology for superior performance, CleanMe™ diagnostics, and improved styling.

- Continually monitors its own sensitivity and operational status
- Replaceable optical chamber eliminates the need to send the unit to the factory for recalibration
- Suitable for residential applications



EE1247 - Glassbreak detector transmitter

The Inovonics EE1247 glassbreak detector utilizes GE Interlogix's ShatterPro II Pattern Recognition Technology™ for proven performance and increased immunity to false alarms. This technology also provides extended range and an automatic test feature. The EE1247 is self-monitoring, alerting users when maintenance is needed.



EE1702 - Dual analog input transmitter *

The Inovonics EE1702 dual analog input transmitter supports user-selectable dual channel input on a single device. One or two sensors using the same measurement units can be attached to measure two conditions at the same location.

- Transmits analog measurements periodically and upon significant change
- Jumper selectable units of measurement: 0-5V, 0-10V or 4-20mA
- 16 bit measurement resolution
- 1.0% measurement accuracy



EE1722 - Temperature/humidity transmitter *

The Inovonics EE1722 external temperature/humidity transmitter with the remote ACC710 sensor is designed for harsh environments, where condensation, frost, temperature, or humidity fluctuations are a concern. The EE1722 requires the ACC710.

- Transmits temperature and humidity periodically and upon significant change
- Measurement range: -20° to 60°C and 0 to 100% relative humidity
- Typical accuracy of 0.3°C and 2.0% relative humidity



EE1723 - Dual input temperature transmitter *

The Inovonics EE1723 dual temperature sensor provides internal measurement and external thermistor options in a single device. The on-board sensor is excellent for monitoring ambient indoor temperature, and the external sensor is user selectable to match your application.

- Transmits temperature measurement periodically and upon significant change
- Transmission intervals from 10 seconds to 30 minutes
- Measurement range: Internal: -25° to 60°C, External: -30° to 100°C



EE1941 - Dual input one-way RF module *

- Powered by input device - low current draw
- Easy to integrate to any binary switch device
- Small form factor



EE1941XS - Serial data one-way RF module *

- Powered by input device - low current draw
- Easy to integrate to any serial output device
- 50 byte serial data payload

* Requires use of a serial receiver or network coordinator and application designed to support advanced functionality.



Stand Alone Receivers

Our stand alone receivers provide the link between the EchoStream wireless network and virtually any security control panel. Our family of receivers offers the most flexibility, whether when creating a new wireless system or when adding wireless to an existing installation. All receivers feature Inovonics EchoStream technology with diversity reception and advanced signal processing to minimize nulls, or dead spots, and provide superior performance in RF noisy environments.





EE4204 - Four zone stand alone receiver

EE4204R - Four zone stand alone receiver with relay outputs

- Add up to four high performance wireless transmitters to any installation
- LED allows the user to view the current status of all four transmitters
- Five open collector outputs on EE4204
- Five form C relays for connecting to any panel on EE4204R
- Case tamper protection, jam detection, and internal antennas for a secure wireless implementation
- Wireless programming routine built into the receiver



EE4216M - 16 zone stand alone receiver

EE4216MR - 16 zone stand alone receiver with relay outputs

- Add up to 16 high performance wireless transmitters to any installation
- Two line text display shows condition of each transmitter, provides log of past events, and shows signal strength
- Nine open collector outputs on EE4216M
- Six form C relays for connecting to any panel on EE4216MR
- Momentary output duration programmable from 0.5 to 99.5 seconds
- Includes case tamper protection, jam detection, and internal antennas for a secure wireless implementation
- Wireless programming routine built into the receiver
- EN50131 Security Grade 2; EN50130 Environmental class II compliance
- Available without ETSI compliance: EE4216, EE4216R



EE4232M - 32 zone stand alone receiver

- Add up to 32 high performance wireless transmitters to any installation
- Display shows condition of each transmitter, provides log of past 50 events, and shows signal strength
- 12 open collector outputs
- Momentary output duration programmable from 0.5 to 99.5 seconds
- Includes case tamper protection, jam detection, and internal antennas for a secure wireless implementation
- Wireless programming routine built into the receiver
- EN50131 Security Grade 2; EN50130 Environmental class II compliance
- Available without ETSI compliance: EE4232



EE4232MR - 32 zone multi-condition receiver, relay outputs

- Add up to 32 high performance wireless transmitters to any installation
- Includes support for both single and multiple condition transmitters
- Display shows condition of each transmitter, provides log of past 50 events, and shows signal strength
- 12 form C relay outputs
- Outputs can be configured in follower, latching, momentary, or toggle modes independently
- Momentary output duration programmable from 0.5 to 99.5 seconds
- Includes case tamper protection, jam detection, and internal antennas for a secure wireless implementation
- Wireless programming routine built into the receiver

Serial Receivers

Serial receivers are the robust communication link between the EchoStream wireless network and virtually any integrator developed or PC based application. Our serial receivers offer ultimate flexibility for managing and monitoring the EchoStream. All receivers feature Inovonics EchoStream technology with diversity reception and advanced signal processing to minimize nulls, or dead spots, and provide superior performance in RF noisy environments.

Repeaters

Inovonics' sophisticated repeaters intelligently broadcasts transmissions from any EchoStream transmitting device while ignoring background noise. EchoStream repeaters receive and re-transmit RF messages to dramatically expand the RF range of your wireless system. These repeaters are ideal for large facilities such as multi-floor buildings, multi-building sites, shopping malls, campuses, and other open air installations. Repeaters include an onboard, lithium-ion, backup battery. Multiple repeaters can be added to a system, scaling the system size as needed. For applications that require protection from environmental elements, an outdoor weatherproof enclosure (ACC640) may be used.



Inovonics repeater



Head-end receiver



EE4000 - Universal serial receiver *

- Provides a wireless gateway between EchoStream one-way transmitters (security, submetering, temperature, or analog) and a head end application using an RS-232 serial interface
- Transmits EchoStream formatted messages to the head end application
- Supervises the connection between the receiver and application
- Serial integration enables hundreds to thousands of wireless devices



EE4200 - Security only serial receiver *

- Provides a wireless gateway between EchoStream one-way security transmitters and a head end application using an RS-232 serial interface
- Transmits EchoStream formatted messages to the head end application
- Supervises the connection between the receiver and application
- Serial integration enables hundreds to thousands of wireless devices
- Available as half sized circuit board configuration: EE4200-HSG (with housing), EE4200H (board only)
- EN50131 Security Grade 2; EN50130 Environmental class II compliance



EE5000 - Repeater

- Includes lithium-ion backup battery
- Simple registration setup
- Self configuring
- Case and wall tamper protection
- EN50131 Security Grade 2; EN50130 Environmental class II compliance

* Serial receivers require integration with the control panel, PC application, or other control device.



System Tools

Inovonics provides a suite of systems tools that allows implementation of wireless technology with less effort and greater understanding. Inovonics offers the ability to boost installation efficiency, create more compelling sales demonstrations, and develop superior products in the marketplace.



SDK9000 - Software development kit

The SDK9000 software development kit (SDK) greatly simplifies the interface between custom application software and Inovonics EchoStream wireless devices.

- Develop wireless-enabled software solutions in less time
- Lower product development costs
- Evaluation version is available at no charge



EE7016 - Wireless survey kit

Use the Inovonics EE7016 to determine optimal location for EchoStream transmitters and repeaters or to demonstrate the range of 868MHz EchoStream devices to potential customers.

- Survey any facility quickly and easily
- Completely portable
- Battery operates the system for up to eight hours
- Includes one EE1223SK survey pendant and one EE1210SK survey universal transmitter
- Requires four AA batteries, not included



EE1223SK - Pendant survey transmitter

The Inovonics EE1223SK survey pendant is used with the EE7016 wireless survey kit to help determine the optimal location for transmitters. Button turns transmitter on/off to generate a heartbeat RF signal.



EE1210SK - Universal survey transmitter

The Inovonics EE1210SK survey transmitter is used with the EE7016 wireless survey kit to help determine the optimal location for transmitters and repeaters. Switch turns transmitter on/off to generate a heartbeat RF signal.



Security Systems Connectivity

Inovonics offers a wide variety of options to connect Inovonics EchoStream wireless products to security systems. Our stand alone receivers allow EchoStream wireless devices to be added to virtually any security control panel, while our serial receivers allow for integration with a variety of panel partners or development with a PC based application.



Stand alone receivers - Control panels

Inovonics stand alone receivers allow EchoStream wireless devices to be added to virtually any security control panel. The stand alone receivers support from four to 32 wireless transmitters and contain fully programmable relay or open collector outputs. The receiver outputs are connected to wired inputs of the control panel. Inovonics stand alone receivers allow connection of EchoStream transmitters to leading hardwired control panels such as Galaxy (Ademco Microtech), Scantronic, Menvier, Gardtech, Bosch, DSC, Texecom, Europlex, and Pyronix.

Stand alone receiver



EchoStream stand alone receiver outputs are connected to wired zone inputs

Any control panel



Serial integration - Control panels

Serial receiver



EE4200 serial receiver allows connection to popular security control panels. Consult with panel partners to determine connection requirements to the control panel.

Panel partners



Serial receivers - PC based applications

Serial receivers and gateways provide formatted serial data output for connection to PC or embedded controller-based applications. In addition, the EchoStream software development kit (SDK) is available to assist developers in the creation of applications using Inovonics' wireless products.

Serial receiver



The Inovonics SDK allows for a greatly simplified PC interface with the EE4000 or EE4200

Any PC application



Pendant transmitters				
EchoStream Model	Dimensions	Battery Replacement	Typical Battery Life	Product Description
EE1223D	56x48x18mm	BAT609	1 to 2 years	Double-button water-resistant pendant transmitter
EE1223S	56x48x18mm	BAT609	1 to 2 years	Single-button water-resistant pendant transmitter
EE1233D	76x41x18mm	BAT608	3 to 5 years	Double-button pendant transmitter
EE1233S	76x41x18mm	BAT608	3 to 5 years	Single-button pendant transmitter
EE1235D	76x41x25mm	BAT608	3 to 5 years	Double-button belt clip pendant transmitter
EE1235S	76x41x25mm	BAT608	3 to 5 years	Single-button belt clip pendant transmitter
EE1236D	76x41x25mm	BAT608	3 to 5 years	Double-button, three condition belt clip pendant transmitter
EE1238D	76x41x25mm	BAT608	3 to 5 years	Double-button, dual condition belt clip pendant transmitter

Universal transmitters				
EchoStream Model	Dimensions	Battery Replacement	Typical Battery Life	Product Description
EE1210	89x49x23mm	BAT604	4 to 5 years	Single input universal transmitter
EE1210W	89x49x23mm	BAT604	4 to 5 years	Door/window transmitter with reed switch
EE1212	89x49x23mm	BAT604	4 to 5 years	Dual input universal transmitter
EE1215	105x45x23mm	BAT604	4 to 5 years	Universal transmitter with wall tamper
EE1215W	105x45x23mm	BAT604	4 to 5 years	Door/window transmitter with wall tamper and reed switch
EE1216	105x45x23mm	BAT604	4 to 5 years	Dual input transmitter with wall tamper

Motion detectors				
EchoStream Model	Dimensions	Battery Replacement	Typical Battery Life	Product Description
EE1260	142x69x56mm	BAT604	2 years	Wall mount motion detector
EE1262	114x64x41mm	BAT604	2 years	Motion detector with pet immunity
EE1265	131x57mm	BAT604	4 years	360° Ceiling mount motion detector

Specialized transmitters				
EchoStream Model	Dimensions	Battery Replacement	Typical Battery Life	Product Description
EE1242	140x67mm	BAT604	3 to 5 years	Smoke detector transmitter
EE1247	79x122x71mm	BAT604	3 to 4 years	Glassbreak detector transmitter
EE1702	89x49x23mm	BAT604	8 years	Dual analog input transmitter
EE1722	89x49x23mm	BAT604	8 years	Temperature/humidity transmitter - requires ACC710
EE1723	89x49x23mm	BAT604	8 years	Dual input temperature transmitter
EE1941	63.5x33x7.6mm	-	-	Dual input one way RF module

Receivers					
EchoStream Model	Dimensions	Power	Max current	# of transmitters	Product description
EE4000	165x89x25mm	10-14 VDC	100mA	-	Universal serial receiver
EE4200	165x89x25mm	10-14 VDC	100mA	-	Security only serial receiver
EE4204	165x89x25mm	10-14 VDC	400mA	4	Four zone stand alone receiver
EE4204R	165x89x25mm	10-14 VDC	400mA	4	Four zone stand alone receiver with relay outputs
EE4216M	165x89x25mm	10-14 VDC	400mA	16	16 zone stand alone receiver
EE4216MR	165x89x25mm	10-14 VDC	400mA	16	16 zone stand alone receiver with relay outputs
EE4232M	165x89x25mm	10-14 VDC	400mA	32	32 zone stand alone receiver
EE4232MR	222x178x38mm	10-14 VDC	600mA	32	32 zone multi-condition receiver, relay outputs

Repeaters				
EchoStream Model	Dimensions	Power	Replacement backup battery	Product Description
EE5000	165x89x25mm	14 VAC	BAT850	Repeater

System tools				
EchoStream Model	Dimensions	Power	Replacement Battery	Product Description
EE7016	-	-	Requires 4 AA Batteries	Wireless survey kit
EE1223SK	56x48x18mm	3.0V Lithium	BAT608	Pendant survey transmitter
EE1210SK	89x49x23mm	3.0V Lithium	BAT604	Universal survey transmitter
SDK9000	-	-	-	Software development kit

For up-to-date product information, product and configuration choices, regulatory compliances, installation tips and latest announcements and any other kind of information, please refer to the Inovonics website, www.inovonics.com.

Accessories			
Part #	Description	Part #	Description
ACC1210B	Universal transmitter brown housing, 10 pack	ACC631	Continuous alarm trigger module
ACC1210WB	Door/window transmitter brown housing, 10 pack	ACC640	Weatherproof plastic enclosure for outdoor installations
ACC501	Transmitter mounting plate	ACC643	Serial and power cable
ACC541	Individual relay	ACC665	Ceiling/wall mount brackets for the EE1261
ACC603L	Simulated leather neck cord	ACC667	White light filter 10 pack for the EE1261
ACC603M	Metal neck cord	ACC668	Long range lens used with the EE1261 (60ft)
ACC603P	Plastic neck cord	ACC669	23ft long range lens for the EE1265
ACC605-BK10	Pendant belt clip replacement, 10 pack	ACC672CT	Curtain lens used with the EE1260
ACC623A	EE1223 accessory pack	ACC672LR	Long range lens used with the EE1260
ACC623B	EE1223 accessory pack - black	ACC672PA	Pet alley lens used with the EE1260
ACC623L/S	EE1223 wrist strap	ACC710	Remote temperature/humidity sensor for the EE1722

EchoStream Warranty and 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 thirty-six (36) 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, or 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.

The Inovonics brand, Inovonics name, Inovonics logo, Inovonics products, EchoStream logo and all other trademarks, unless otherwise noted are registered trademarks of Inovonics Corporation. The names of other companies and products mentioned herein may be the trademarks of their respective owners.

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