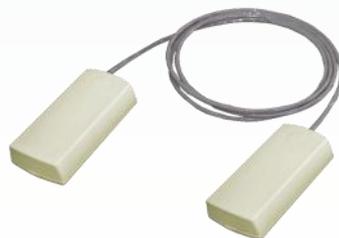


# Inovonics Wireless Product Catalogue 2012-13



## Axxess Identification

Axxess Identification has more than fifteen years experience in the design, manufacture and supply of high quality security products including access control, photo identification, environmental and remote site monitoring to distributors and OEM's worldwide.

Besides complete access control systems, Axxess Identification also offers a full range of OEM products including reader /card technologies, biometric readers and reader data converters for system integrators and security manufacturers.

Axxess Identification's headquarters are located in Swindon, United Kingdom.

## Axxess Identification and Inovonics

Axxess Identification is an authorised European distributor of Inovonics wireless security and environmental monitoring products.

Inovonics products are easily adapted to work with other systems already in place and can help with the security of the most challenging commercial environments.

Axxess Identification has the expertise to assist you with the selection of Inovonics products to meet your specific requirement and offer technical support where required.



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## 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 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
- Approved 868MHz European frequency

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 are available with single or double-button activation, can be fully supervised to ensure reliability 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**

- Easy to use, 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 signalling



### **EE1233S - Single-button, pendant transmitter**

- Easy to use, single-button activation
- Neck cord included
- Easily mounted for fixed position signalling



### **EE1235S - Single-button, belt clip pendant transmitter**

- Easy to use, single-button activation
- Belt clip included
- Easily mounted for fixed-position signalling



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

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



### **EE800-133 - Multi-button belt clip pendant transmitter**

- Multi-button design provides protection against accidental activation
- Can be worn on belt or used with a ripcord
- Complete with a man down alarm with pre-alarm

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

## Universal Transmitters

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, with a battery that provides up to five years of operation and a mounting bracket for quick and easy installation.



### 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
- 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
- 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.

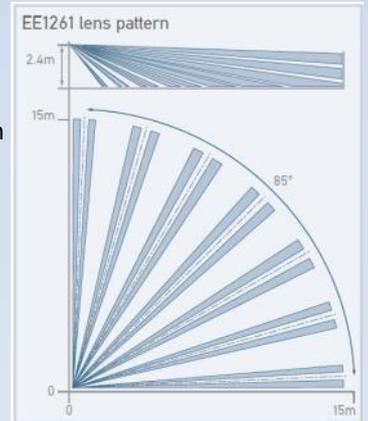
## Motion Detectors

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



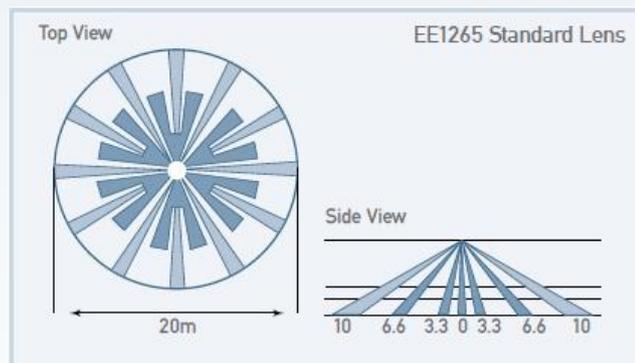
### EE1261 - Four element motion detector

- Case tamper and back tamper switches
- Highly sensitive four element motion sensor with pet immunity (15Kg/30cm)
- 85° angle with a detection range of 15m
- Selectable sleep timer duration
- Fixed and variable sleep timer settings
- EN50131 Security Grade 2; EN50130 Environmental class II compliance



### 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
- 360° angle with a detection range of 20m
- Low current detector is highly sensitive to moving infrared radiation
- Features increased immunity to causes of false activation



### EE1242 - Smoke detector transmitter

- GE Interlogix™ technology for superior performance
- 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

## Specialised Transmitters

Specialised transmitters by Inovonics can be used for unique security, temperature, custom and other monitoring applications. All specialised transmitters can be fully supervised.

Some specialised transmitters require the use of a serial receiver and application designed to support advanced functionality.



### EE1702 - Dual analogue input transmitter \*

The EE1702 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 analogue 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
- For use with analogue sensors



EE1722 + ACC710

### EE1722 - Temperature/humidity transmitter \*

The EE1722 sensor is designed for harsh environments where condensation, frost, temperature or humidity fluctuations are a concern. The EE1722 requires the ACC710 to function.

- 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



ACC710

### EE1723 - Dual input temperature transmitter \*

The EE1723 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.

## Standalone Receivers

The standalone receivers provide the link between the EchoStream wireless network and virtually any security control panel. Our family of receivers offers the most flexibility 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 minimise nulls or dead spots and provide superior performance in RF noisy environments.



### EE4000 - Universal serial receiver \*

- Provides a wireless gateway between EchoStream one-way transmitters (security, temperature, or analogue) 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



### 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
- Six form C relays for connecting to any panel
- 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

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



### **EE4232M - 32 zone standalone 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

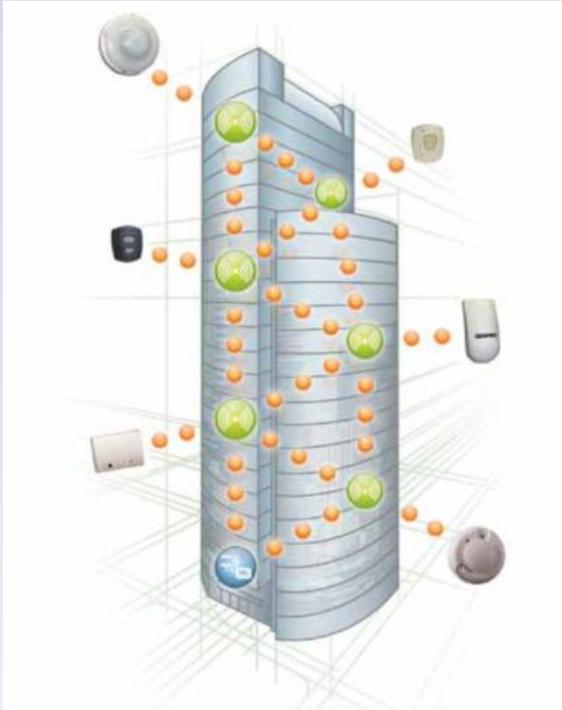


### **E4232MR – 32 zone multi-condition receiver with relay outputs**

- 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 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

## 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.



The Inovonics transmitter sends out a signal.



Repeaters receive the signal and re-broadcast it, allowing you to extend the range of your RF system so you can cover large areas such as installations in campuses, sites with detached buildings, or multi-story complexes.



The receiver hears the signal from the repeaters and processes them accordingly.



### EE5000 - Repeater

- Includes lithium-ion backup battery
- Simple registration setup
- Self configuring
- Case and wall tamper protection
- EN50131 Security Grade2; EN50130 Environmental Class II compliance

## System Tools

Inovonics provides a suite of system 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.



### EE7016 - Wireless survey kit

Use the 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 EE1210 single input universal transmitter and one ACC631 continuous alarm trigger module
- Requires four AA batteries

## System Integration

There are a wide variety of options to connect Inovonics EchoStream wireless products to security systems. The standalone receivers allow EchoStream wireless devices to be added to virtually any security control panel, while the serial receivers allow for integration with a variety of panel partners or development with a PC based application.

### Standalone Receivers—Control Panels

Inovonics standalone 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 standalone 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.

#### Standalone receiver



#### Any control panel



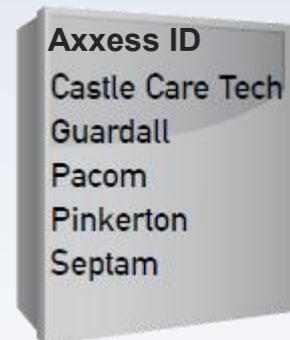
EchoStream standalone receiver outputs are connected to wired zone inputs

### Serial Integration—Control Panels

#### Serial Receiver



#### Panel Partners



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

### 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 is available to assist developers in the creation of applications using Inovonics' wireless products.

#### Serial Receiver



#### Any PC application



The Inovonics software development kit allows for a greatly simplified PC interface with the EE4000 or EE4200

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
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
EE800-133	115.5x52x31mm	BAT604	3 to 5 years	Multi-button belt clip pendant transmitter

Universal Transmitters				
EchoStream Model	Dimensions	Battery Replacement	Typical Battery Life	Product Description
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
EE1261	120x57x31mm	BAT604	2 years	Wall mount motion detector
EE1265	131x57mm	BAT604	4 years	360° Ceiling mount motion

Specialised Transmitters				
EchoStream Model	Dimensions	Battery Replacement	Typical Battery Life	Product Description
EE1242	140x67mm	BAT604	3 to 5 years	Smoke detector transmitter
EE1702	89x49x23mm	BAT604	8 years	Dual analogue input transmitter
EE1722	89x49x23mm	BAT604	8 years	Temperature/humidity transmitter - requires ACC710
EE1723	89x49x23mm	BAT604	8 years	Dual input temperature transmitter
EE1941	64x33x7.6mm	-	-	Dual input one way RF module
EN1941XS	64x33x7.6mm	-	-	Serial data one-way RF module

Receivers					
EchoStream Model	Dimensions	Power	Max current	# of transmitters	Product Description
EE4000	165x89x25mm	10-14 VDC	100mA	-	Universal serial receiver
EE4200H-HSG	165x89x25mm	10-14 VDC	100mA	-	Security only serial receiver
EE4216MR	165x89x25mm	10-14 VDC	400mA	16	16 zone standalone receiver with relay outputs
EE4232M	165x89x25mm	10-14 VDC	400mA	32	32 zone standalone 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	162x92x28mm	14 VAC	BAT850	Repeater

System Tools				
EchoStream Model	Dimensions	Power	Replacement Battery	Product Description
EE7016	-	-	Requires 4 AA Batteries	Wireless survey kit

Accessories Part #	Description	Part #	Description
ACC541	Individual relay	ACC640	Weatherproof plastic enclosure for outdoor installations
ACC603M	Metal neck cord	ACC643	Serial and power cable
ACC603P	Plastic neck cord	ACC665	Ceiling/wall mount brackets for the EE1261
ACC605-BK10	Pendant belt clip (pack of 10)	ACC667	White light filter for the EE1261 (pack of 10)
ACC623A	EE1223 accessory pack	ACC668	Long range lens used with the EE1261 (60ft)
ACC623B	EE1223 accessory pack - black	ACC669	23ft long range lens for the EE1265
ACC623L/S	EE1223 wrist strap	ACC800-25	Multi-Button Pendant Rip-cord 25cm
ACC631	Continuous alarm trigger module	ACC800-75	Multi-Button Pendant Rip-cord 75cm
ACC710	Remote temperature/humidity sensor for the EE1722	ACC800-100	Multi-Button Pendant Rip-cord 100cm

## Axxess Identification Warranty and Disclaimer

Axxess Identification warrants the Inovonics products (“product” or “products”) to conform to Inovonics 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 purchase. Within the warranty period, Axxess Identification will repair or replace, at its option, all or any part of the warranted product. Axxess Identification 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 Authorisation (“RMA”) number by Axxess Identification. 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 Axxess Identification.

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. Axxess Identification 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. Axxess Identification does not authorise any person to act on its behalf to modify, vary, or extend this warranty. All other products, accessories or attachments used in conjunction with the equipment, including batteries, will be covered solely by their own warranty, if any. Axxess Identification 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 the products.

The user recognises 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.

Axxess Identification 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. Axxess Identification shall have no liability for any death, injury, or damage, however incurred, based on a claim that Axxess Identification products failed to function. However, if Axxess Identification is held liable, directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, Axxess Identification’s 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 Axxess Identification. Inovonics products are not authorised for use in safety critical applications (such as life support) where a failure of the Inovonics product would reasonably be expected to cause severe personal injury or death—unless authorised officers of the parties have executed an agreement specifically governing such use.

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: Axxess Identification 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 Axxess Identification products are installed. Axxess identification 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.

### Warranty Return Policy

Customers wishing to return products to Axxess Identification 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, to be paid by the customer.

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