

Inner Range Integrity/Inception.

Inovonics RF LAN Expander Module. P/N: 996008

APPLICATION NOTE

Depending on the type, Inovonics Transmitters are enrolled in an Integrity or Inception system as a Zone Input or a User Remote.

Typically, an Intruder detection device, Smoke/Heat detector or Universal Transmitter is enrolled as a Zone Input, while a Pendant is enrolled as a User Remote.

Some devices can be enrolled as either type allowing the device to be processed as a Zone Input or a Remote depending on the application.

e.g. An EN1223S Single-button Pendant may be enrolled as a Remote for use as a portable garage door controller, or enrolled as a Zone Input and installed in a fixed location for use as a call button.

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Transmitter Compatibility Guide

This table shows which mode each Transmitter type is compatible with for each of the Integriti and Inception platforms.

Inovonics Part No:	Description	Integriti		Inception	
		Zone Input	Remote*	Zone Input	Remote*
EN1210	Single Input Universal Transmitter.	Y	n	Y	n
EN1210W	Door/Window Transmitter with Reed Switch.	Y	n	Y	n
EN1212 †	Dual Input Universal Transmitter.	Y	n	Y	n
EN1235DF	Double Button, Fixed position, Holdup Transmitter, Black.	Y	Y	Y	Y
EN1243 *	Smoke / Heat Detector Transmitter.	Y	n	Y	n
EN1247	Glassbreak Detector Transmitter.	Y	n	Y	n
EN1260	Wall Mount PIR Motion Detector.	Y	n	Y	n
EN1261HT	High Traffic 4 Element Motion Detector.	Y	n	Y	n
EN1262	Motion Detector with Pet Immunity.	Y	n	Y	n
EN1265	360deg Ceiling Mount Motion Detector.	Y	n	Y	n
EN1752 †	Temperature Detector (Not yet available)	Y	n	Y	n
EN1941 †	Dual Input One Way RF Module.	Y	n	Y	n
EN5040	Repeater. (An RF Zone Input can be used to monitor status)	Y	n	Y	n
EN1223D *	Double Button, Water Resistant Pendant. Black.	Y	Y	Y	Y
EN1223S *	Single Button, Water Resistant Pendant, Beige.	Y	Y	Y	Y
EN1224 *†	4 Button, Pendant Transmitter, Black.	Y	Y	Y	Y
EN1233D *	Double Button, Pendant Transmitter, Beige.	Y	Y	Y	Y
EN1235D *	Double Button, Belt Clip Pendant, Black.	Y	Y	Y	Y
EN1235S *	Single Button, Belt Clip Pendant, Black.	Y	Y	Y	Y
EN1236D *†	Double Button, 3 Condition Pendant, Black	Y	Y	Y	Y

* There is no Tamper state processing for Transmitters marked with an asterisk or any Transmitter enrolled as a Remote.

† See 'RF Expander Zone Inputs in Integriti' below for important information on these devices.

Integriti Inovonics Functionality

RF Expander Zone Inputs in Integriti

When a Transmitter is enrolled in an Integriti system as an RF Zone Input, each Transmitter is assigned (registered) to a single Input and three input states are recognized; Seal, Alarm and Tamper.

Note that Integriti only monitors a single 'Alarm' state for each input. When a Transmitter with 2 or more inputs, alarm conditions or button functions is enrolled as a Zone Input, the Integriti system cannot differentiate between the different inputs, conditions or button functions. e.g. EN1212 and EN1941 general purpose transmitters, EN1752 Temperature detector or EN1224 and EN1236D Pendants.
(Different Pendant button functions are recognized when a Pendant Transmitter is enrolled as a 'Remote'.)

Pendant Zone Input Functionality

When a Pendant Transmitter is enrolled in an Integriti system as an RF Zone Input, the button functions are shown in the table below.

Device	Left Button or Button 1	Right Button Or Button 2	Button 3	Button 4	Both Buttons	Button 1&2 or Button 3&4
EN1223D	-	-			Alarm	
EN1223S	Alarm					
EN1224 *	Alarm	Alarm	Alarm	Alarm		Alarm
EN1233D	-	-			Alarm	
EN1235D	-	-			Alarm	
EN1235DF	-	-			Alarm	
EN1235S	Alarm					
EN1236D *	Alarm	Alarm			Alarm	

* Note that Alarms are only generated on the Zone Input to which the Pendant is assigned (registered). When enrolled as a Zone Input, the Integriti system cannot differentiate the buttons or combinations of buttons pressed. i.e. There is no advantage in using multi-function Pendants such as EN1224 or EN1236D if assigning a Pendant to a Zone Input.

Pendant Remote Functionality in Integriti

This table shows the functionality of Pendant Transmitters when enrolled in the Integriti system as Remotes. Check this table before configuring the 'Button Definitions' in 'RF Remote Template' programming.

NOTE: The 'Area 1' and 'Area 2' options are not applicable to Inovonics Remotes.

Device	Action 1	Action 2	Action 3	Action 4	Input 1	Input 2
EN1223D	Both buttons					
EN1223S	Button 1					
EN1224	Button 1	Button 2	Button 3	Button 4	Buttons 1&2	Buttons 3&4
EN1233D	Both Buttons					
EN1235D	Both Buttons					
EN1235DF *	Both Buttons					
EN1235S	Button 1					
EN1236D	Left Button	Right Button	Both buttons			

* NOTE: EN1235DF incorporates a Tamper switch and is intended to be permanently mounted and enrolled as a Zone input rather than a User Remote.

Inovonics RF LAN Expander/Receiver Monitoring in Integrity

The RF LAN Expander System Inputs monitor a range of conditions on a per Module basis.

The following System Inputs are provided for RF LAN Expanders:

- Transmitter Low Battery.
- Transmitter Poll Fail.
- Transmitter RF Jam.
- Cabinet Tamper.
- Mains Fail.
- Module Low Battery
- LAN Comms problem.

These System Inputs should be enabled by being assigned to a relevant Area with an appropriate Process Group.

When these System Inputs are enabled, then any of these conditions (where relevant) on any device associated with the Module will trigger the relevant System Input for that Module.

The Review log can then be inspected for details of the specific device that triggered the alarm.

Inovonics Repeater Monitoring in Integrity

An Inovonics Repeater can be monitored for problems by assigning the Repeater device ID to an Inovonics RF Expander Zone Input.

An Input name should also be programmed to identify the device.

The following input states are monitored:

- Tamper. (Zone Input Tamper alarm and Logged to Review)
- Poll Fail. (Logged to Review)
- Mains Fail. (Logged to Review)
- Low Battery. (Logged to Review)
- RF Jam. (Logged to Review)

Note that 'Poll Fail', 'Mains Fail', 'Low Battery' and 'RF Jam' are also monitored per Module, via the RF LAN Expander System Inputs as described above to allow reporting of these conditions.

Inception Inovonics Functionality

RF Expander Zone Inputs in Inception

Any compatible Inovonics Transmitter may be enrolled as a Zone Input on an Inception system.

When programming an RF Expander, each 'RF Input' (Hardware Point) is assigned a 'Device Type' to determine how the input will be used. The Device Types are as follows:

- No Device The RF Input is not used.
- Detector The detector's main/primary alarm or input is monitored by this RF Input. This is the setting required for the majority of Transmitters.
- Detector 2 Alarm The detector's secondary alarm/2nd input (if relevant) is monitored by this RF Input.
- Repeater The device to be monitored by this RF Input is a Repeater. See '*Repeater Monitoring*' below.

For Transmitters with 2 alarm conditions or 2 or more button actions, Inception allows both alarms to be monitored independently by assigning the Transmitter to two separate RF Inputs and using the 'Device Type' setting to nominate which alarm the RF Input will monitor. i.e. The same Transmitter serial number is entered for two RF Inputs, then the Device Type 'Detector' is chosen for one, and 'Detector 2 Alarm' is chosen for the other. Note that a Transmitter Tamper condition will cause a Tamper alarm on both Inputs.

This table shows the 'Device Type' setting that must be used to monitor each detector input or condition.

Device	Main/Primary alarm	Secondary alarm /2 nd Input	Notes
EN1210	Detector Alarm		
EN1210W	Detector Alarm	Detector 2 Alarm	Input 1 is the Wired Input. Input 2 is the Reed Switch.
EN1212	Detector Alarm	Detector 2 Alarm	
EN1235DF	Detector Alarm		
EN1243 *	Detector Alarm		
EN1247	Detector Alarm		
EN1260	Detector Alarm		
EN1261HT	Detector Alarm		
EN1262	Detector Alarm		
EN1265	Detector Alarm		
EN1752	Detector Alarm	Detector 2 Alarm	'Detector' is the High temperature alarm. 'Detector2' is the Low temperature alarm.
EN1941	Detector Alarm	Detector 2 Alarm	

This table shows the 'Device Type' setting that must be used to monitor different Pendant button actions when a Pendant is enrolled as a Zone Input.

Device	Left Button or Button 1	Right Button Or Button 2	Both Buttons	Button 1&2
EN1223D	-	-	Detector Alarm	
EN1223S	Detector Alarm			
EN1224	Detector Alarm	Detector 2 Alarm		Detector or Detector 2 Alarm
EN1233D	-	-	Detector Alarm	
EN1235D	-	-	Detector Alarm	
EN1235DF	-	-	Detector Alarm	
EN1235S	Detector Alarm			
EN1236D	Detector Alarm	Detector 2 Alarm	-	

Pendant Remote Functionality in Inception

This table shows the functionality of Pendant Transmitters when enrolled in the Inception system as Remotes. Check this table before configuring the 'Button Actions' in 'Remote Fob Templates' programming.

Device	Button 1	Button 2	Button 3	Button 4
EN1223D	Both buttons			
EN1223S	Button 1			
EN1224	Button 1	Button 2	Button 3	Button 4
EN1233D	Both Buttons			
EN1235D	Both Buttons			
EN1235DF *	Both Buttons			
EN1235S	Button 1			
EN1236D	Left Button	Right Button	Both buttons	

* NOTE: EN1235DF incorporates a Tamper switch and is intended to be permanently mounted and enrolled as a Zone input rather than a User Remote.

Inovonics RF LAN Expander/Receiver Monitoring in Inception

The RF LAN Expander is monitored for a range of conditions on a per Module basis.

The following conditions are monitored for RF LAN Expanders:

- LAN Comms problem.
- Cabinet Tamper.
- Transmitter Low Battery.
- Transmitter RF Jam.
- Transmitter Poll Fail.

Any of these conditions (where relevant) on any device associated with the Module will trigger the relevant alarm for that Module.

The Review log can then be inspected for details of the specific device that triggered the alarm.

Inovonics Repeater Monitoring in Inception

An Inovonics Repeater can be monitored for problems by assigning it to an RF Module Zone Input.

This is done in 'RF Inputs' programming by selecting the Device Type 'Repeater' and entering the Repeater device ID in the 'Serial Number' field. An Input name must also be programmed to identify the device.

The following input states are monitored via the Zone Input:

- Tamper

The following Repeater states are logged to Review and also monitored on a per Module basis as described above.

- Poll Fail.
- Mains Fail.
- Low Battery.