

FA116

Executive Programmer

User Manual 01860

for FA416, FA426 and FA464 *Frequency Agile*[®] Receivers and C404 4-channel slave receiver

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Overview:

The FA116 Executive Programmer allows the user to alter receiver and transmitter parameters to fit specific applications.

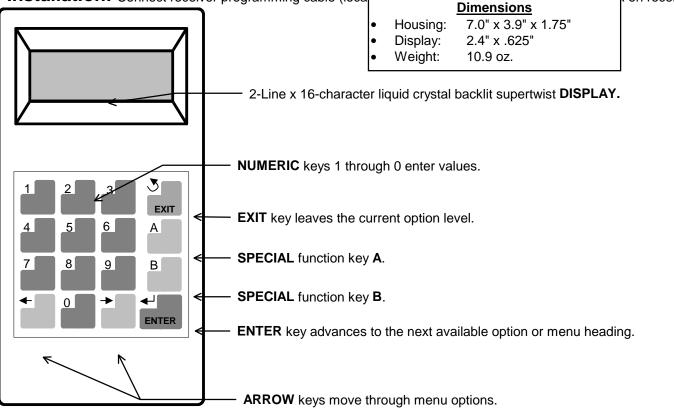
It is compatible with Inovonics FA416, FA426 and FA464 *Frequency AgileTM* receivers as well as the C404 receiver. The programmer also allows the user to monitor signal margin of points, to test output functions, to clear faults, to add, modify and delete transmitters and to program transmitters. The FA116 has built-in programming cables for programming transmitters and receivers.

The FA116 is menu-driven. Users locate main menu headings using arrow keys, then select headings by pressing the **ENTER** key. The programmer displays option screens which allow the user to accept, change or reject current settings for the receiver, receiver outputs and transmitters. Transmitters are programmed by connecting them to the programmer via the built-in programming cable.

Features

- Programs all multi-channel FA-series receivers; adaptable for C404 receivers.
- Sets receiver and transmitter parameters.
- Permits transmitter zoning.
- Programming cables store in rear compartment.
- Available C404 adapter: stereo jack to 4-pin header. (Not included.)
- 16-Key tactile keypad.
- Built-in bench stand.

Installation: Connect receiver programming cable (located in roor compartment) to mini stores inch on receiver.

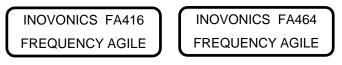


For C404, the adapter cable is required.

Programming FA416 and FA464 Receivers with the FA116 Executive Programmer

Following are descriptions of menu and option displays. Main menu headings are **POINT STATUS, RECEIVER SETUP, OUTPUT SETUP, PROGRAM POINT, DELETE POINT, CLEAR FAULTS** and **TEST OUTPUTS**.

When the FA116 is first powered up, the display briefly shows software version information, then shows the logo display, including receiver type:



To enter programming mode, enter the access code. Default access code is **3446**. The display will show:

Point Status

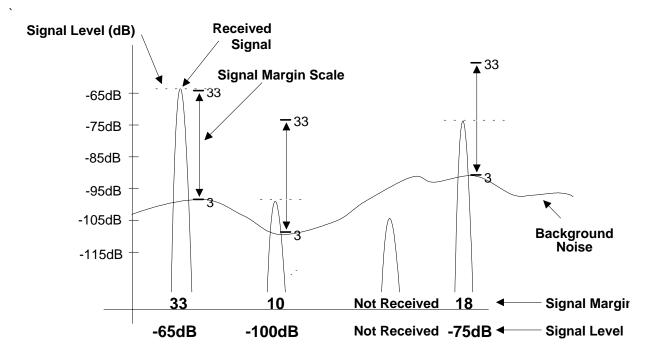
Press ENTER for ← POINT STATUS → Press **ENTER** to see signal margins, signal levels and current point status. Press \leftarrow to go to Receiver Setup menu or press \rightarrow to go to Test Outputs.

Signal margin is an indicator of relative signal strength to background noise. Margin values are from 3 (signal just distinguishable from background) to 33 (strongest). Signal margins below 10 are reported as "Weak".
 Signal level is an absolute measure of intensity, ranging from about -65dB (very strong) to below -110dB (very faint).

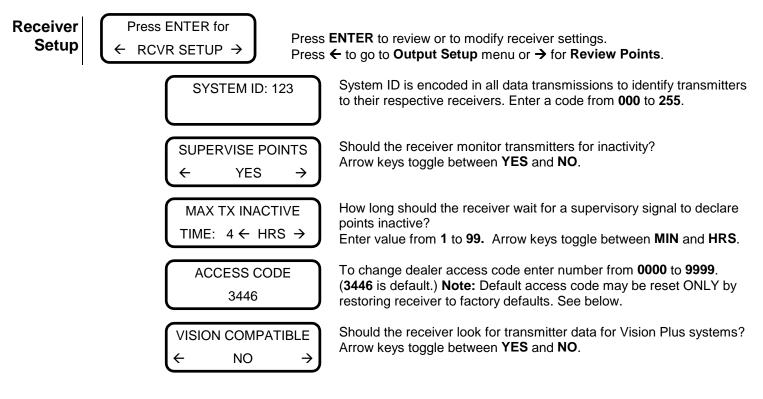


←1 ALM TMP BATT→ LVL:-nnn MAR:+mm The top line of the display shows the current status of the transmitter. The second line will read "Good Signal" or "Weak Signal". Press **ENTER** to view

The top line of the display shows the current status of the transmitter. The bottom line shows real-time values in dB and dBm for signal level and signal margin. Press **ENTER** to toggle back to "Good Signal / Weak Signal" display.



Programming FA416 and FA464 Receivers



Reminder: Press ENTER to advance to next menu option. ENTER accepts data in display and proceeds.

What is "Vision Plus Compatibility"?

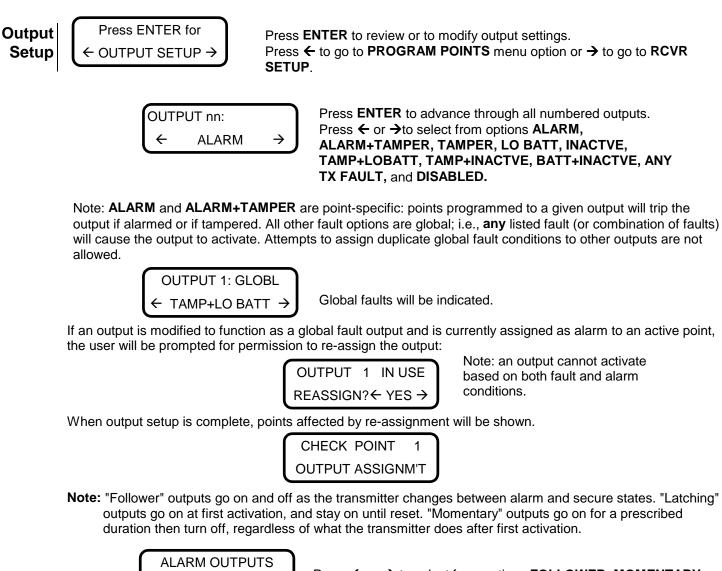
Vision Plus Compatibility permits transmitters programmed by a the Vision Plus panel to be monitored by an FA416 or an FA464 receiver AS LONG AS BOTH SYSTEMS HAVE THE SAME SYSTEM ID.Transmitters monitored by FA receivers need not be programmed by the receiver. Once the receiver hears a Vision Plus-programmed transmitter, the receiver will consider it one of its own. (Note: any transmitters programmed by an FA416 receiver will NOT be received by a Vision Plus.)

Initializing FA416 or FA464 receivers: The following sequence will restore the receiver to factory default settings: (**ADV**, **RESET** and **DEL** Buttons are located on the receiver.)

- 1. Press and Hold **ADV.**
- 2. Press and release **RESET**.
- 3. Release ADV.
- 4. Immediately, while the Decode and Valid LEDs are off, press and hold **DEL** for 6 to 7 seconds.
- 5. The receiver will flash the **TX PRGM LED**, indicating restoral complete.

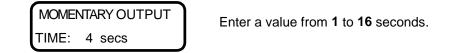
Refer to appropriate appendices for factory default settings.

Programming FA416 and FA464 Receivers

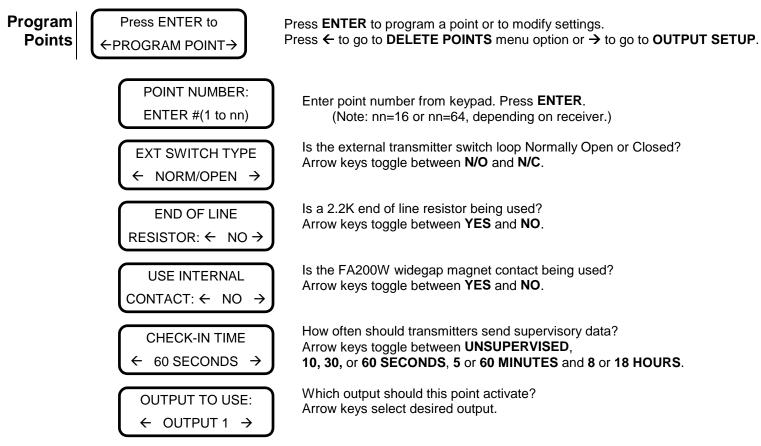




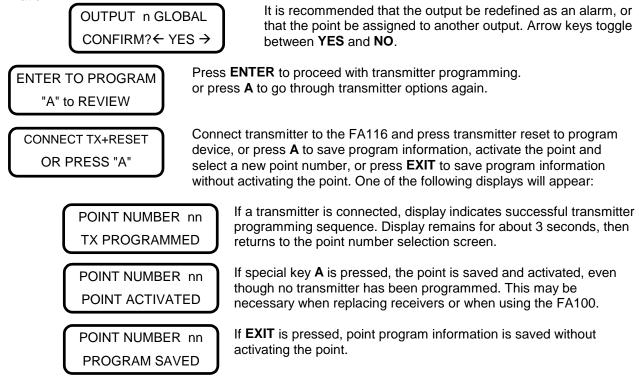
If any outputs are programmed **MOMENTARY**, the user will be prompted for the number of seconds of momentary activation.



Programming FA416 and FA464 Receivers



If the selected output has been previously assigned as a global fault output, the programmer will prompt for confirmation:



Press ENTER to delete a point. Programming remains in memory, but the Delete receiver will not look for the point. To reactivate the point, go to Program Press ENTER to Points. Press \leftarrow to go to **CLEAR FAULTS** menu option or \rightarrow to go to **Points** DELETE POINT → 4 PROGRAM POINT. POINT NUMBER: Enter point number from keypad. Press ENTER. ENTER #(1 to nn) (nn = 16 or nn = 64, depending on receiver.)At this point the programmer requests confirmation: ARE YOU SURE? Press ENTER to accept answer in next line. Arrow keys toggle between NO and YES. NO \rightarrow Faults may be registered during programming and operation. Press ENTER to Clear Press ENTER to clear latched fault outputs. Press ← to go to **TEST OUTPUTS** menu option or → to go to **DELETE** Faults CLEAR FAULTS → POINT. ARE YOU SURE? Press ENTER to accept answer in next line. Arrow keys toggle between YES and NO. YES \rightarrow Test Press ENTER to Press ENTER to test outputs. Outputs Press ← to go to **POINT STATUS** menu option or → to go to **CLEAR** TEST OUTPUTS → FAULTS. ENTER to TOGGLE Press ENTER to turn selected output on and off. Press \leftarrow or \rightarrow to select a different output. **OUTPUT 1** \rightarrow

Programming FA416 and FA464 Receivers

Note: The FA416 has 4 outputs, plus the fault output. The FA464 has 16 outputs, plus the fault output.

Creating Zones with the FA116: By assigning transmitter alarm conditions to specific alarm outputs, it is possible to differentiate between types of alarms, areas of alarms, etc. For example, suppose an application in a small business requires 10 holdup buttons, 1 fire exit door and 3 removable pendants. Program outputs 1, 2 and 3 to be active on alarm and program the FA200s attached to the holdup buttons to use output 1. Assign the fire exit point to output 2 and the pendants to output 3. Configure the system to monitor low batteries and tampers at output 4.

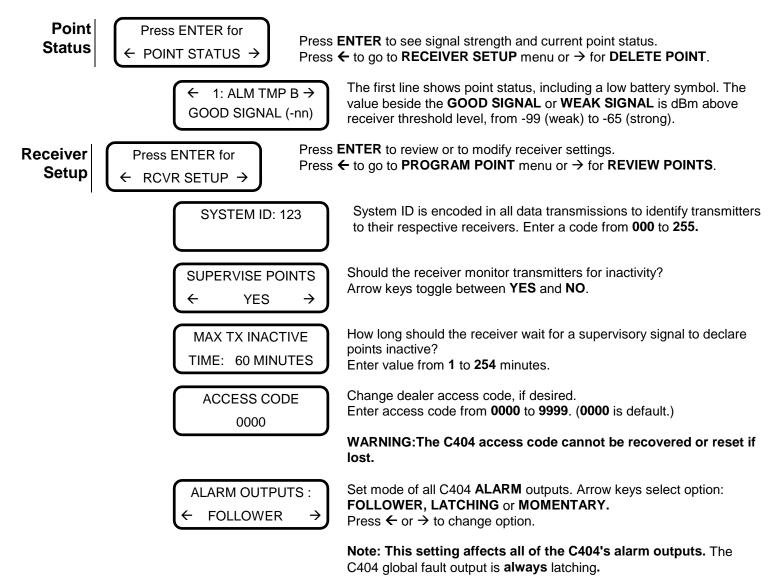
Programming C404 Slave Receivers with the FA116 Executive Programmer

Following are descriptions of menu and option displays. Main menu headings are **POINT STATUS**, **RECEIVER SETUP**, **PROGRAM POINT**, and **DELETE POINT**.

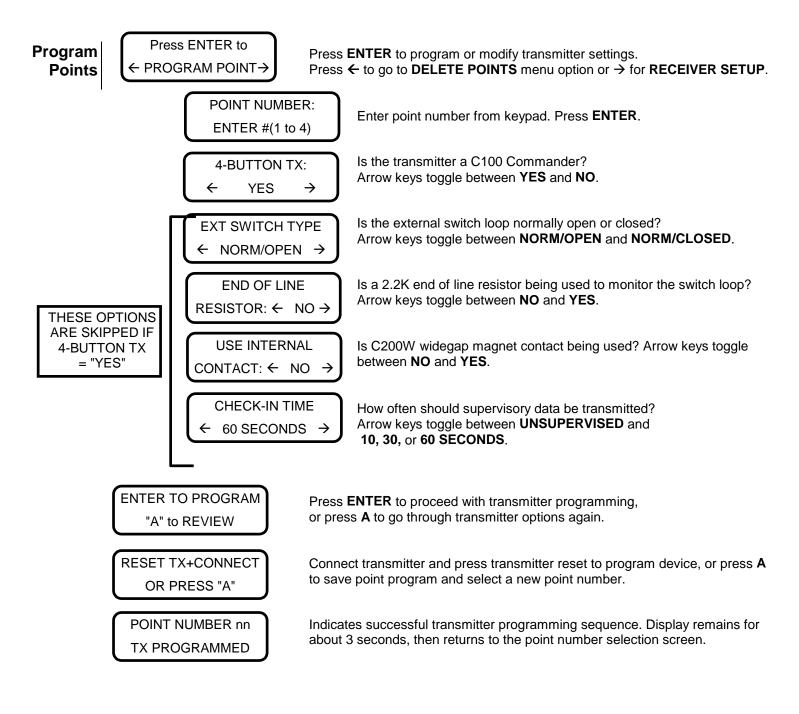
When the FA116 is first powered up, the display briefly shows software information, then shows the logo display, including receiver type.

INOVONICS C404 SLAVE RECEIVER

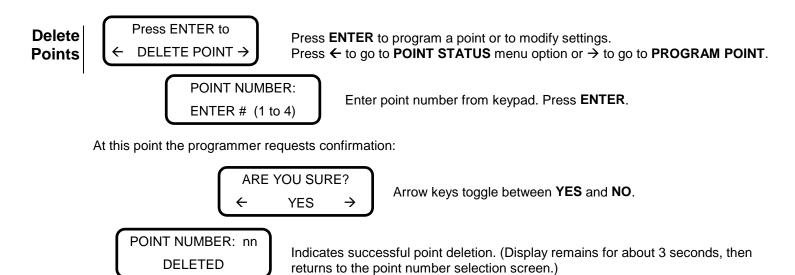
To enter programming mode, enter the access code. Default access code is **0000**. The display will show:



Programming C404 Slave Receivers



Programming C404 Slave Receivers

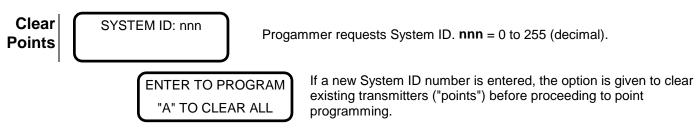


Note: Programming parameters are not erased from receiver memory. Transmitters may be re-programmed to the deleted point number.

Programming FA426 Receivers with the FA116 Executive Programmer

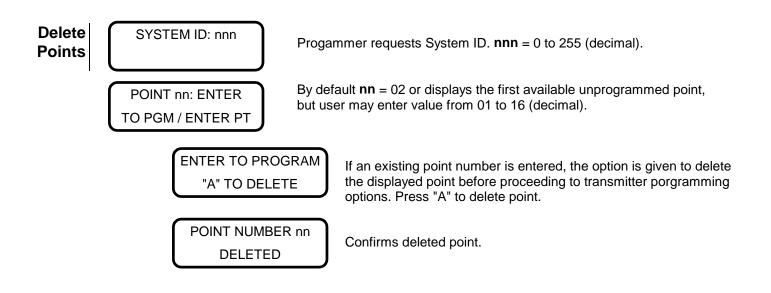
When the FA116 is first powered up, the display briefly shows software information, then shows the logo display, including receiver type.

DMP MODEL FA426 FREQUENCY AGILE

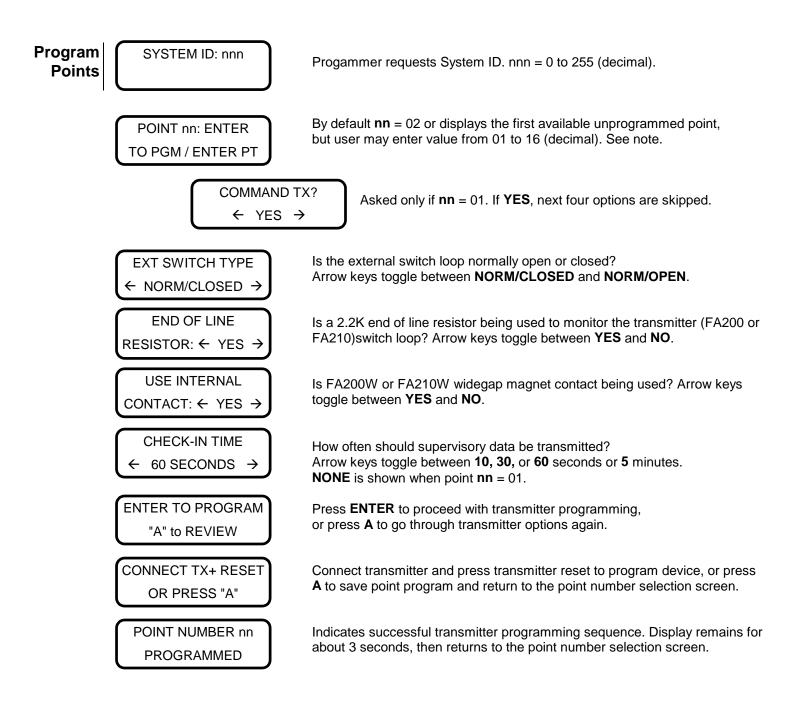


Note: Transmitter information such as N/O, N/C, EOL and check-in interval is <u>not</u> stored in the FA426. The receiver retains only the point number of transmitters which have been programmed.

Warning: If a new System ID is entered, existing transmitters must be reprogrammed to acquire the new System ID. If not re-programmed, these transmitters will be reported inactive at the expiration of the first supervison window.



Programming FA426 Receivers with the FA116 Executive Programmer (Continued)



Note: Point 01 must always be either a command transmitter or an unsupervised device.

FA416 Receiver Parameters

<u>Output</u> 1 2 3 4	Default Active on Condition Alarm Alarm Alarm Alarm	Programmable Options ALARM / ALARM+TAMPER / TAMPER / LO BATT / INACTIVE / TAMP+LO BATT / TAMP+INACTIVE / LO BATT+INACTIVE / ANY TX FAULT / DISABLED
Transmitter Condition	Default <u>Mode</u>	
Alarm Inactive Tamper Low Batt	Follower Follower Latching Latching	FOLLOWER / MOMENTARY / LATCHING
Output time:	4 seconds	1 - 16 seconds

Default Momentary Output time: 4 seconds

Default Receiver Parameters:

System ID:	(randomly assigned at factory) 0 - 255		
Point supervision:	Yes	Yes / No	
Supervision window:	4 hours	1 - 99 minutes, 1 - 99 hours	
Access code:	3446	0000 - 9999	
Vision Plus compatible:	No	Yes / No	

To initialize the FA416 to default parameters refer to Page 3 or see the receiver user manual.

Default Transmitter Parameters

Point #	Contact	<u>Output</u>	Check-in
1	N/O	1	60 SEC
2	N/O	2	60 SEC
3	N/C	3	60 SEC
4	N/C	4	60 SEC
5	N/O	1	60 SEC
6	N/O	2	60 SEC
7	N/O	3	60 SEC
8	N/O	4	60 SEC
9	N/C	1	60 SEC
10	N/C	2	60 SEC
11	N/C	3	60 SEC
12	N/C	4	60 SEC
13	N/C	1	60 SEC
14	N/C	2	60 SEC
15	N/C	3	60 SEC
16	N/C	4	60 SEC

Appendix B

FA464 Receiver Parameters

<u>Output</u> 1 2 3 4 16	Default Active on Condition Alarm Alarm Alarm Alarm	<u>Programmable Options</u> ALARM / ALARM+TAMPER / TAMPER / LO BATT / INACTIVE / TAMP+LO BATT / TAMP+INACTIVE / LO BATT+INACTIVE / ANY TX FAULT / DISABLED		
Transmitter <u>Condition</u> Alarm Inactive Tamper Low Batt	Default <u>Mode</u> Follower Follower Latching Latching	FOLLOWER / MOMENTARY / LATCHING		
Default Momentary Output time:	4 seconds	1 - 16 seconds		
Default Receiver Parameters:				
System ID: Point supervision: Supervision window: Access code:	(randomly as Yes 4 hours 3446	ssigned at factory) 0 - 255 Yes / No 1 - 99 minutes, 1 - 99 hours 0000 - 9999		

To initialize the FA464 to default parameters refer to Page 3 or see the receiver user manual.

Yes / No

No

Vision Plus compatible:

Default FA464 Transmitter Parameters

Point#	Contact	Output	Check-In	Point#	Contact	Output	Check-In
1	N/O	1	60 SEC	33	N/C	9	60 SEC
2	N/O	2	60 SEC	34	N/C	9	60 SEC
3	N/C	3	60 SEC	35	N/C	9	60 SEC
4	N/C	4	60 SEC	36	N/C	9	60 SEC
5	N/O	1	60 SEC	37	N/C	10	60 SEC
6	N/O	2	60 SEC	38	N/C	10	60 SEC
7	N/O	3	60 SEC	39	N/C	10	60 SEC
8	N/O	4	60 SEC	40	N/O	10	60 SEC
9	N/C	1	60 SEC	41	N/O	11	60 SEC
10	N/C	2	60 SEC	42	N/O	11	60 SEC
11	N/C	3	60 SEC	43	N/O	11	60 SEC
12	N/C	4	60 SEC	44	N/O	11	60 SEC
13	N/C	1	60 SEC	45	N/O	12	60 SEC
14	N/C	2	60 SEC	46	N/O	12	60 SEC
15	N/C	3	60 SEC	47	N/O	12	60 SEC
16	N/C	4	60 SEC	48	N/O	12	60 SEC
17	N/C	5	60 SEC	49*	N/O	13	5 MIN
18	N/C	5	60 SEC	50	N/O	13	5 MIN
19	N/C	5	60 SEC	51	N/O	13	5 MIN
20	N/C	5	60 SEC	52	N/O	13	5 MIN
21	N/C	6	60 SEC	53	N/O	14	5 MIN
22	N/C	6	60 SEC	54	N/O	14	5 MIN
23	N/C	6	60 SEC	55	N/O	14	5 MIN
24	N/C	6	60 SEC	56	N/O	14	5 MIN
25	N/C	7	60 SEC	57	N/O	15	5 MIN
26	N/C	7	60 SEC	58	N/O	15	5 MIN
27	N/C	7	60 SEC	59	N/O	15	5 MIN
28	N/C	7	60 SEC	60,,,	N/O	15	5 MIN
29	N/C	8	60 SEC	61	N/O+INT	16	60 SEC
30	N/C	8	60 SEC	62	N/O+INT	16	60 SEC
31	N/C	8	60 SEC	63	N/O+INT	16	60 SEC
32	N/C	8	60 SEC	64	N/O+INT	16	60 SEC

*Note: Points 49-60 are programmed to check in every five minutes. This will extend battery life slightly depending on which transmitter is used.

**Note: Points 61 through 64: Normally Open plus Internal Contact = Yes.

Appendix C

C404 4-channel Slave Receiver Parameters

	Default Active on	
<u>Output</u>	Condition	Programmable Options
1	Alarm	Not programmable
2	Alarm	п
3	Alarm	н
4	Alarm	н

Note: C404 outputs cannot be re-assigned to other points.

Transmitter	Default
Condition	Mode

Alarm Follower Follower / Momentary / Latching Global Fault Latching (Not programmable) Latching only

Default Momentary Output time: 2 seconds

Default Receiver Parameters:

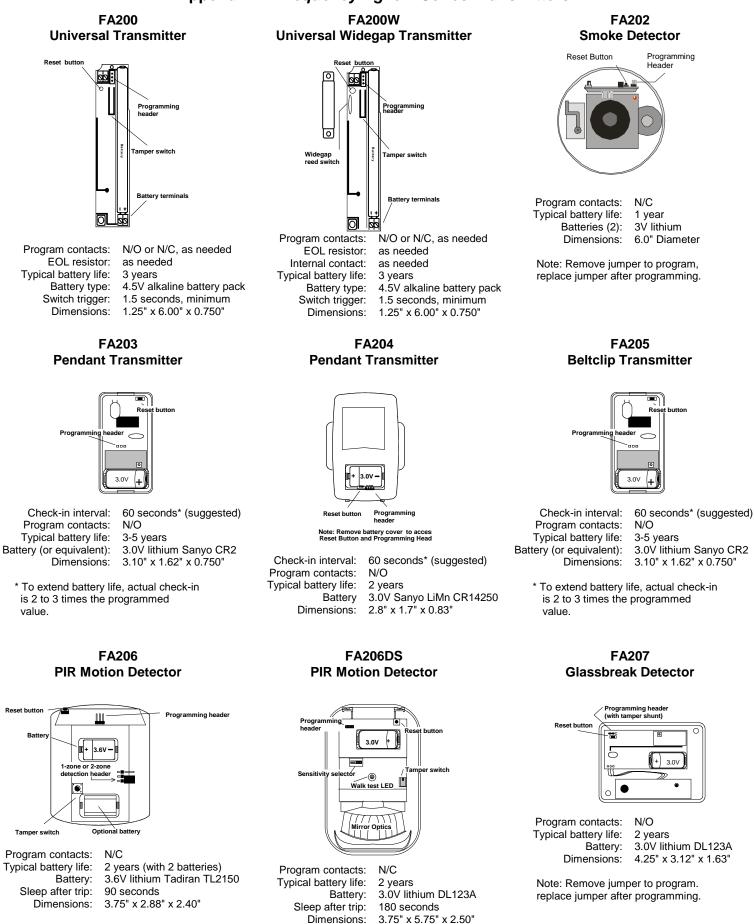
System ID:	(randomly assigned at factory) 0 - 255
Point supervision:	Yes	Yes / No
Supervision window:	240 minutes	0 - 240 minutes
Access code:	0000	0000 - 9999

NOTE: The C404 cannot be reset to default conditions. It must be reprogrammed.

Default Transmitter Parameters

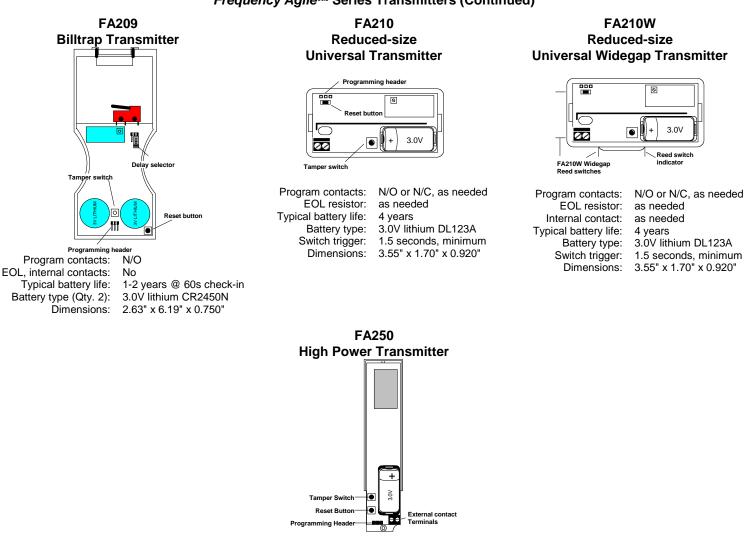
	<u>Default</u>	Programmable Options
Transmitter type	Standard	STANDARD 4-BUTTON TX (C100 REMOTE)
Contacts	Point 1: N/O Point 2: N/O Point 3: N/C Point 4: N/C	NORMALLY OPEN / NORMALLY CLOSED NORMALLY OPEN / NORMALLY CLOSED NORMALLY OPEN / NORMALLY CLOSED NORMALLY OPEN / NORMALLY CLOSED
End of Line Resistor	No	NO / YES
Internal Contact (C200W widegap magnet loop)	No	NO / YES
Check-In period	60 Seconds	60 SECONDS 30 SECONDS 10 SECONDS NONE

Appendix D: Frequency Agile™ Series Transmitters



Note: Batteries are always supervised. Lithium batteries are capacity-tested at 18-hour intervals. The transmitter will deactivate 2 weeks after low battery is detected.

Frequency Agile[™] Series Transmitters (Continued)



Program contacts:N/O or N/C, as neededEOL resistor:as neededTypical battery life:1-2 yearsBattery type:3.0V lithium DL123ASwitch trigger:1.5 seconds, minimumDimensions:1.25" x 6.00" x 0.750"

Note: Batteries are always supervised. Lithium batteries are capacity-tested at 18-hour intervals. The transmitter will deactivate 2 weeks after low battery is detected.

Appendix E Warranty & Disclaimer

Inovonics Corporation ("Inovonics") 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 Corporation will repair or replace, at its option, all or any part of the warrantied product. Inovonics 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. 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.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express, or implied, including any warranty of merchantability or fitness for a particular purpose. Inovonics will not be liable to anyone 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 does not authorize any person to act on its behalf to modify, vary or extend this warranty. This warranty will apply to Inovonics Products only. All other products, accessories or attachments used in conjunction with Inovonics equipment, including batteries, will be covered solely by their own warranty, if any. Inovonics will not be liable for any direct, incidental or consequential damage or loss whatsoever, caused by the malfunction of Product due to products, accessories, or attachments of other manufacturers, including batteries, used in conjunction with Inovonics Products.

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

The User recognizes that a properly installed and maintained security system may only reduce the risk of events such as burglary, robbery, personal injury and fire. It does not insure or guarantee that there will be no death, personal damage and/or damage to property as a result. **Inovonics 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 Corporation shall have no liability for any death, injury or damage, however incurred, based on a claim that Inovonics Products failed to function. However, if Inovonics is held liable, directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, Inovonics' 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.

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 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 Products are installed. Inovonics 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.

Frequency Agile[®] Receivers compatible with the FA116 Executive Programmer

FA416	16-channel / 4-output
FA416D	16-channel / 4-output with display
FA426	DMP XR20 16-channel receiver
FA464DR	64-channel / 16-output

Inovonics C-series Receivers

C404 4-channel slave receiver

Inovonics Wireless Corporation

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