INOVONICS CORPORATION

VISION 2000

no hardwire points

INSTALLATION MANUAL

3446
2124

CC905FA V21

DELAY BETWEEN
CHIMES = 5.5 SEC

2100 Central Ave., Boulder, CO. 80301 • Phone 303/939-9336 • Toll Free 800/782-2709 • FAX 303/939-8977

Warranty

Because the manufacturer does not install, adjust, place or operate this security device, the manufacturer cannot guarantee the performance of this security device. Therefore, there are no express warranties (except as stated herein below) or implied warranties (including any warranty of merchantability of fitness) attached to the sale or use of this product. Any modification or alteration of this product other than at the manufacturer's authorized facilities voids any warranty.

In lieu of all other express warranties or any implied warranties, the MANUFACTURER EXPRESSLY WARRANTS against defects in material and workmanship in the security device for twenty-four (24) months from the date of manufacture. If a problem with the product occurs during the 24 month period, the manufacturer's sole responsibility (whether for breach of warranty or otherwise) is to repair or replace, at its sole option, free of charge, any unit determined to be defective by the manufacturer and returned by the customer freight prepaid. This warranty shall remain in full force and effect for twenty-four (24) months provided that the unit is owned by the original purchaser, the unit was properly installed and operated, and the unit has not been repaired, altered, or modified outside the manufacturer's authorized facilities.

The foregoing states the buyer's sole and exclusive remedy for any breach of warranty or for any claim, whether sounding in contract, tort, strict liability or negligence, based upon any defect in this security device. The manufacturer shall in no event be responsible for any incidental or consequential damages incurred by the owner.

This warranty gives you specific legal rights and you may have additional rights which vary from state to state.

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WELCOME TO THE VISION 2000

The Vision . 2000 Wireless Security System was developed specifically to provide the convenience of wireless with the reliability of hardwire. The reliability of the system is derived from the system's superior RF data communications link which uses the 900 MHz frequency band and a proprietary data protocol scheme. The technique is unique both in increased radiated output power from the transmitters and in interference avoidance at the receiver. The transmitter's spectrum spreading capability combined with diversity reception at the receiver and high speed data format provides the utmost in performance and reliability for data communications. This performance is augmented by a system that is very flexible in application, easy to install and easy to operate.

- 32 point capability
- 2 - 4 year transmitter battery life
- per point programming
- dual frequency 900mhz transmission
- diversity reception
- signal strength monitoring
- prompted programming
- alphanumeric display
- fully supervised
- high supervision rate
- high resistance to jamming and signal clashing
- secondary receiver option
- single button arming and wireless keypad options

SYSTEM OVERVIEW

The basic **Vision 2000** consists of the Control/Communicator, RF Receiver, and Universal Transmitters. The system must be programmed to meet the needs of a specific installation. Programming is done by the C-101 Executive Keypad. The Executive Keypad, the C-102 Deluxe Keypad, and the C-100 Remote Control are used to arm and disarm the system.

The system has four arming levels - **OFF, HOME, AWAY,** and **CUSTOM.** These arming levels affect the response to transmitters programmed as **INTRUSION** points. Devices programmed as **24 HOUR** points are monitored continually and the response to such points are unaffected by the arming levels. The **OFF** mode deactivates the intrusion portion of the system. The **HOME** mode will respond to alarm conditions transmitted by any **INTRUSION** point that is programmed to be active in the **HOME** mode. Typically these points would be perimeter protection points to provide security while the home is occupied. Similarly, the **AWAY** and **CUSTOM** modes will respond to any intrusion point that is programmed to be active in the away mode. **AWAY** mode is intended for use when the home is unoccupied and the system is fully armed. **CUSTOM** mode allows for bypassing specific points from a fully armed system for special applications such as a "night mode" where all but a very limited portion of the home is to be protected. Points that are not bypassed in the **CUSTOM** mode are responded to as if in the **AWAY** mode.

Arming levels are accessed using the Executive Keypad, Deluxe Keypad, or Remote Control. The Remote Control provides for one button arming and disarming. Since the Remote Control must be programmed into the system before it will be recognized by the system, security is greatly enhanced. For higher security, the Executive and Deluxe Keypads provide the means of inputting 4 digit access codes to allow arming and disarming. Up to 3 different access codes can be programmed into the system.

The system is fully supervised, continually checking the status of each point in the system for the state of the sensor/switch, the battery condition, and whether or not the point has been tampered. It also checks for operational presence of the points to insure that points have not been removed from the system or have not failed.

When the intrusion portion of the system is OFF, the display on the Executive Keypad will indicate SYSTEM READY or SYSTEM NOT READY. SYSTEM READY implies that there are no faults in the system, a- fault being a point that is tampered, unsecured, low battery or inactive. It could also be an AC Power failure or a Back-Up Battery failure.

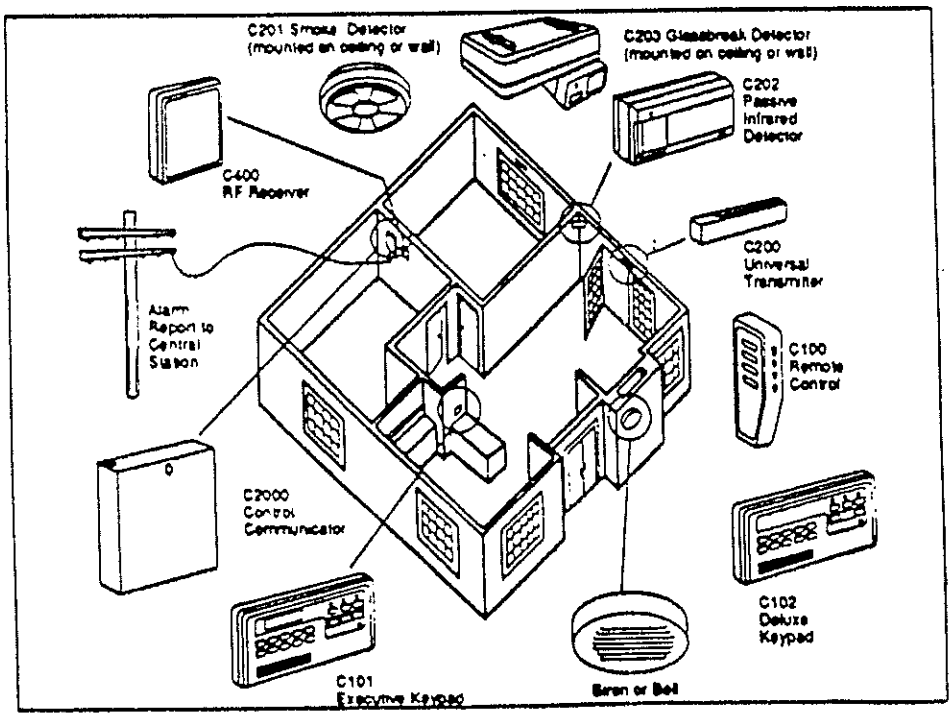
The condition of the system may be reviewed any time and from any mode by pressing the REVIEW button on either the Executive Keypad or the Control/Communicator. Current alarm and fault information will be displayed.

SYSTEM COMPONENTS

The Vision 2000 system includes the following components:

- C-2000 Control/Communicator
- C-400 RF Receiver
- C-100 Remote Control
- C-101 Executive Keypad/Programmer (Hardwired)
- C-102 Deluxe Keypad (Wireless)
- C-200 Universal Transmitter
- C-201 Smoke Detector/Transmitter
- C-202 Passive Infrared Detector/Transmitter
- C-203 Shatterbox(Glassbreak Detector)/Transmitter
- C-204 Pendant Transmitter

Figure 1



GENERAL INSTALLATION AND PROGRAMMING PROCEDURES

1. Plan the installation and fill out the programming worksheet. The programming worksheet provides an easy guide for configuring the system and for inputting the information into the system. The worksheet should be retained for future reference should the system require service. (sample completed worksheet on pages 32 and 33)

2. Install the Control/Communicator. Connect the desired devices to the Intrusion and Auxiliary (24 hour) relays. Connect an annunciation speaker if desired. The sirens can use either the internal regulated power supply, which provides 13.5 VDC at 1.5 amp maximum (20 watt maximum), or an external power supply. Figure 2 shows how to wire the system using the internal power supply.

3. Connect the Executive Keypad to the Control to allow programming. The Executive Keypad can be permanently installed as a part of the system and will provide the user with the most flexibility and ease of operation. The system will support up to 4 Executive Keypads. The maximum wire run to any keypad is 250'.

4. Connect the Receiver to the Control. The Receiver can be located away from the Control to optimize reception should the Control be located in a non-optimal RF location. A second Receiver can be added for large installations or where diverse, redundant reception is critical.

5. Mount an RJ31X telephone jack in a convenient location. In some areas the RJ31X jack must be installed by the telephone company. You will need to give them the FCC Registration number of the Communicator (AB798Z-67793-AL-E) and the Ringer Equivalence (0.1B).

6. Connect the status speaker to the Control. This speaker sounds status tones, such as tones to indicate the system has been armed or disarmed, a trouble condition exists, or the system is in the Entry Delay period. Connect the speaker using the white wire from the Executive Keypad to the lower audio terminal on the Control. The volume control adjusts all status speakers to the same level.

7. Connect the Backup Battery and the AC Power Transformer to the Control. First, connect a Backup Battery (not included) to the black (-) and red (+) Control leads. A 12 volt sealed lead acid battery rated at 1.2 to 6 amp hours is recommended. If you do not connect a backup battery, the **Vision 2000** will report a system "trouble." The AC power transformer (included) supplies 14 volts AC at 20 VA. Connect it to the panel with 18 gauge or thicker wire. It has a mounting tab for securing it to the wall. Connect the transformer leads to the terminals marked AC. The AC LED on the Control Panel should light.

8. Program the Control Panel parameters using the Executive Keypad.

9. Label and program each transmitter.

GENERAL INSTALLATION (continued)

10. Install each transmitter in the desired location.

11. Review the signal levels received from each transmitter by entering the signal level menu on the Executive Keypad.

12. Enter the test mode from the Executive Keypad. Allow time for all transmitters to report in to the Control then review the system status to confirm that all points have reported.

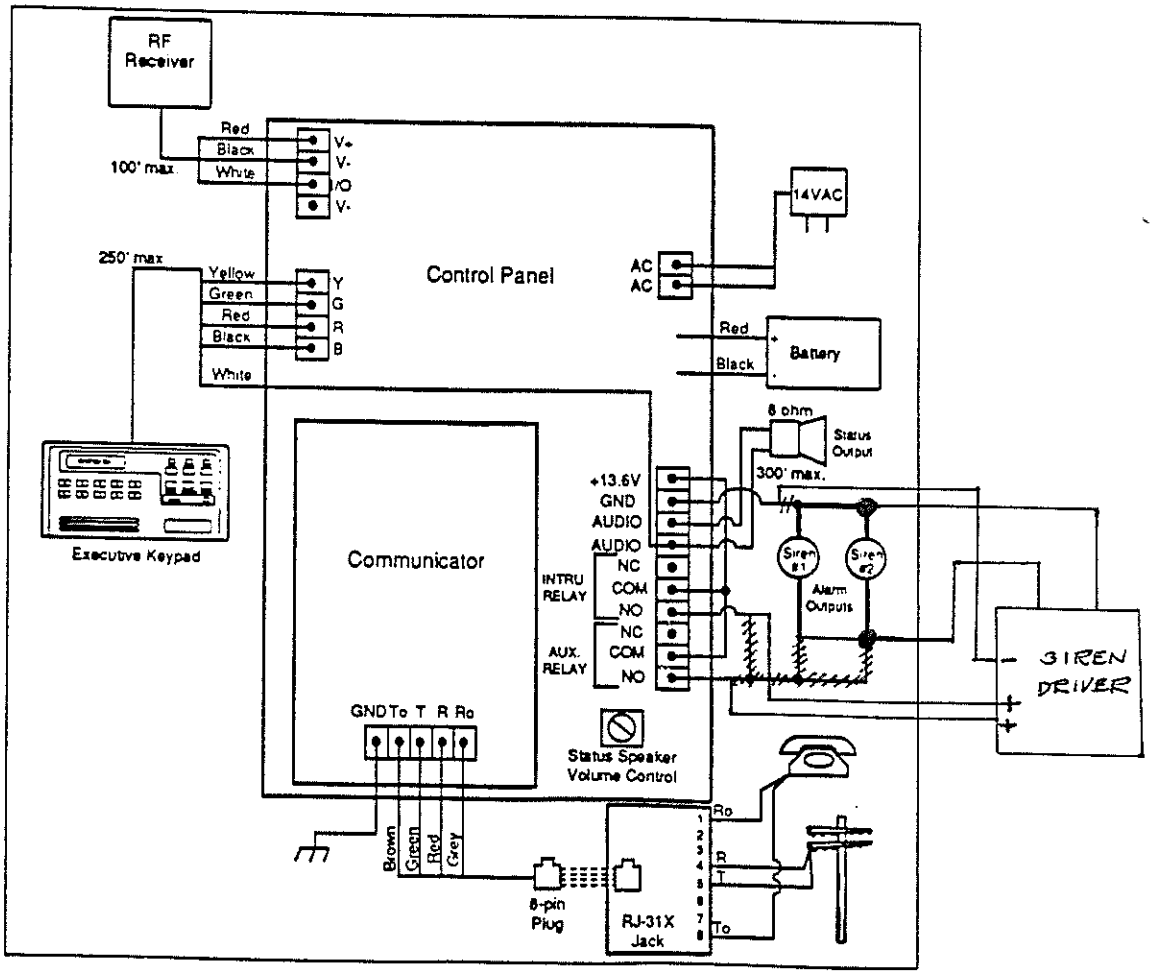
13. Exit the test mode.

INSTALLING THE C-2000 CONTROL COMMUNICATOR

The Control Communicator can be mounted in any location that is convenient for AC power and telephone access. The Control is powered by a 14 VAC plug-in transformer and an optional 12 VDC backup battery. Alarm sounding devices can be connected to the Intrusion Relay that is activated by an Intrusion alarm and to the Auxiliary Relay that is activated by a 24 HOUR alarm. Any number of speakers may be connected to the AUDIO terminals. Care must be taken to insure that the total resistive load is not less than 8 ohms. Connecting speakers in series is the best way to insure this.

A wiring diagram is given in Figure 2 to assist in making all the connections.

Figure 2

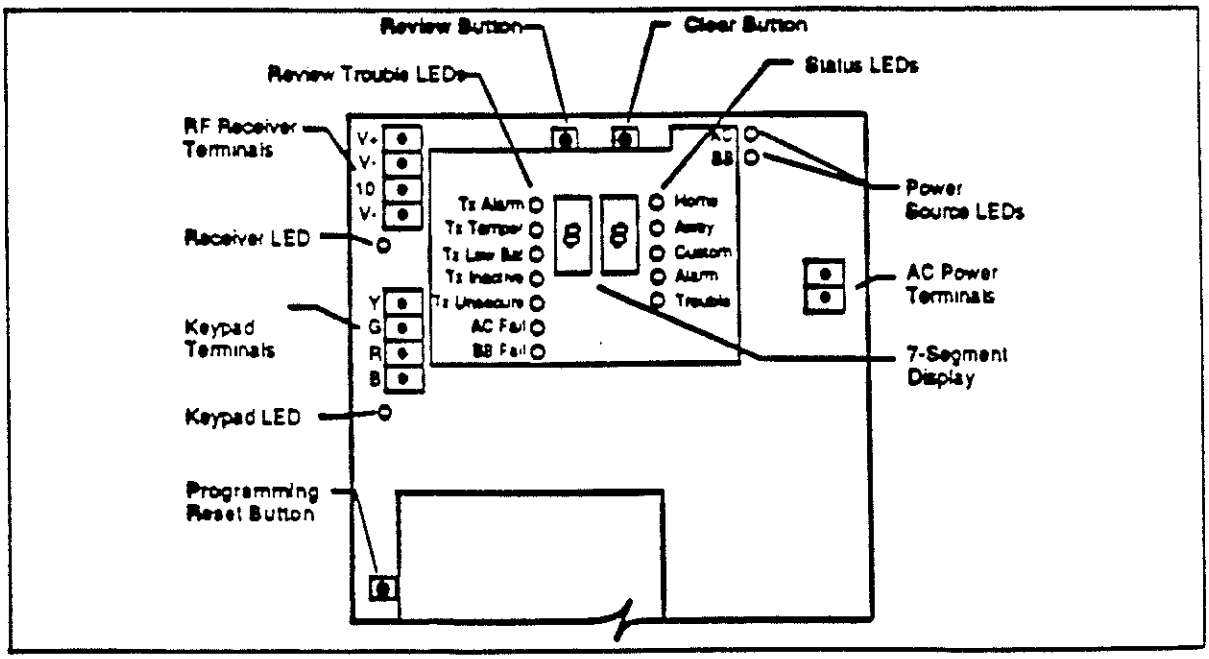


INSTALLING THE C-2000 (continued)

If an Executive Keypad is not used with the system, the Control has a numeric display for displaying alarm and fault information. An Alarm LED and a Trouble LED will indicate if the system has had an alarm or has some problem that may require attention. To review alarms and or faults, press the button labeled review located above the display. The display will then scroll through all alarm and fault information with the point number of the affected point appearing on the numeric display and the condition of the point indicated by the LED to the left of the display. After reviewing the alarmed or troubled points, the memory may be cleared by pressing and holding the CLEAR button then pressing the REVIEW button.

In addition, arming information is indicated by LEDs to the right of the numeric display. If all three mode LEDs are lit (HOME, AWAY, CUSTOM), the Control is in the PROGRAMMING mode.

Figure 3

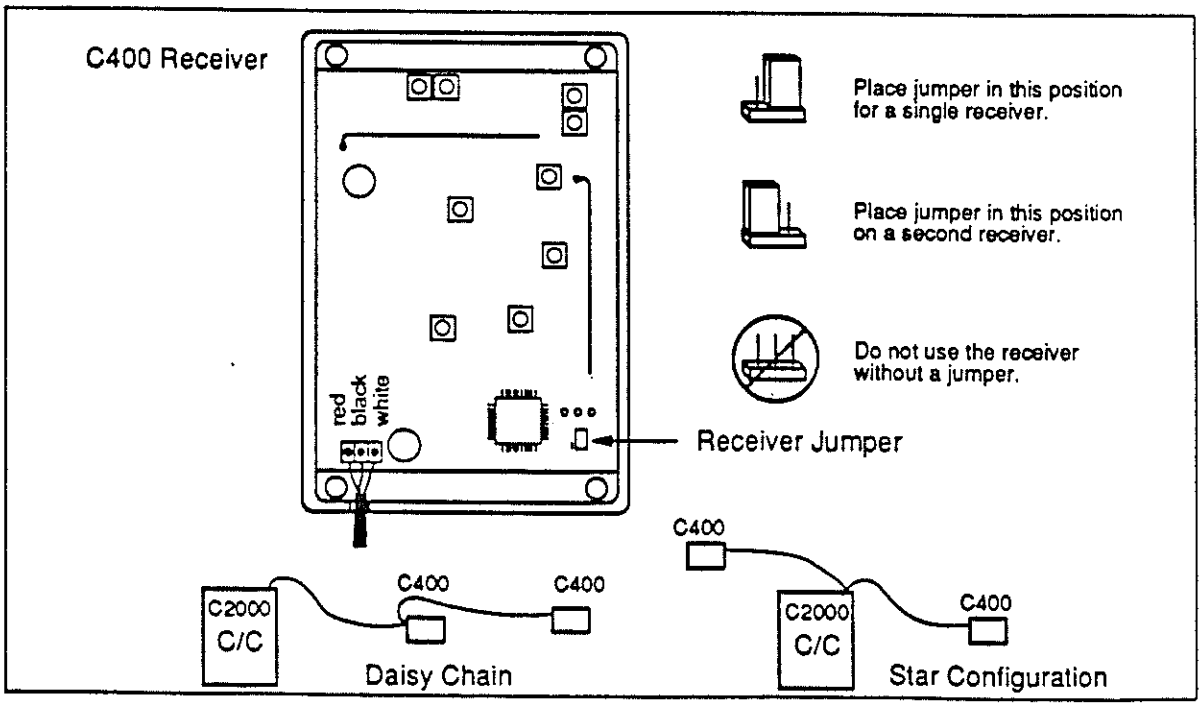


C-400 RF RECEIVER

The RF Receiver can be mounted next to the Control or at a distance. In most installations it will make most sense to mount it next to the Control. If the installation requires the Control to be mounted in close proximity to large metal objects, it is advisable to move the Receiver out away from the metal objects. The maximum wire run is 100 feet. Shielded wire should not be used due to the distortion of data it causes. The system can accommodate two Receivers should the installation be unusually large or an otherwise "tough" RF environment.

If only one Receiver is to be used, it is only necessary to connect the three wires coming from the Receiver to the Control as shown in Figure 1. If two Receivers are used, remove the covers by removing the four screws holding the case halves together. Locate the Receiver jumper and place the shunt connector on one outside and center pin on the first Receiver and place the connector on the opposite outside and center pin on the second Receiver. The second Receiver is connected to the Control in parallel with first receiver. Replace the covers and mount the Receivers using the double-sided adhesive tape.

Figure 4

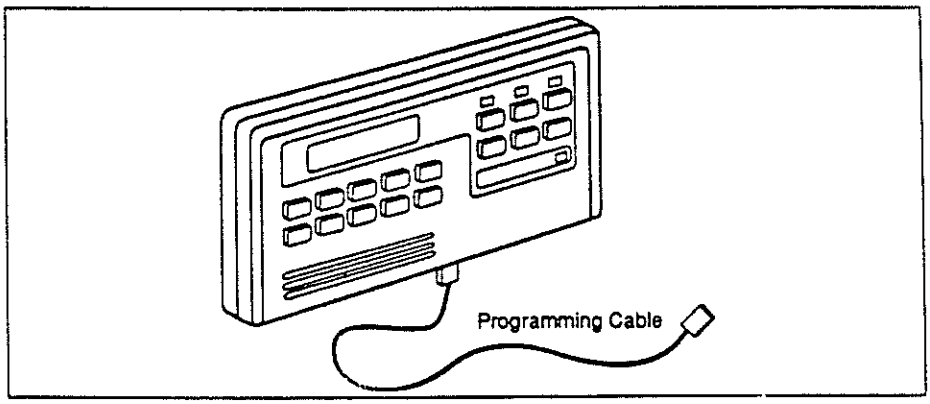


C-101 EXECUTIVE KEYPAD

The Executive Keypad is connected to the Control via four or five wires. The yellow, green, red, and black wires must be connected as shown in Figure 2. The white wire is optional and allows the Control to use the speaker in the keypad to generate the annunciation tones for arming, disarming, alerts, troubles, pre-alarms, and entry delays. Four Executive Keypads can be used with each system. The maximum wire run to each keypad is 250 feet.

For programming transmitters, a programming cable connects to a port along the bottom edge of the Keypad. The cable can then be connected to transmitters to load program information into the transmitter.

Figure 5



C-101 EXECUTIVE KEYPAD (continued)

Mount the Keypad by removing the back cover. Use a screw driver to unlatch the tabs along the bottom edge of the cover. To replace the back, align the bottom edge and snap the top into place.

The Executive Keypad allows for more versatility for the user and is a recommended part of the system. It will continually display the status of the system via the alphanumeric LCD display. Pressing the REVIEW key will cause any recently alarmed points to be displayed. The point that alarmed first since the last mode change will be displayed first. All other alarmed points will show up in numeric order rather than chronological order. Any faulted points will also be displayed.

By using the Master Code, the user can gain access to several special features. To access the functions enter

MASTER CODE (4 digits)

REVIEW.

The following menu items can be advanced through:

REVIEW ALARMS
CLEAR MEMORY
TEST SYSTEM
PROGRAM PANEL

Under the PROGRAM PANEL menu, only a few parameters may be changed. These parameters are:

CHIME
ENTRY TIME
EXIT TIME
CODE LIMIT(USER)
USER CODE
MASTER CODE
DURESS CODE
CUSTOM ARMING
SYSTEM BYPASS

C-100 REMOTE CONTROL

The Remote Control allows for "one button" arming and disarming of the system. It also provides a "panic button" for signaling a police emergency. It is not supervised in that it only transmits when it is manually initiated.

The Remote Control is powered by a high capacity Lithium battery that is not field replaceable. The expected battery life is 8 to 10 years. The battery can be replaced by the factory.

To program a Remote Control, proceed as follows:

1. Remove the two screws holding the case halves together.

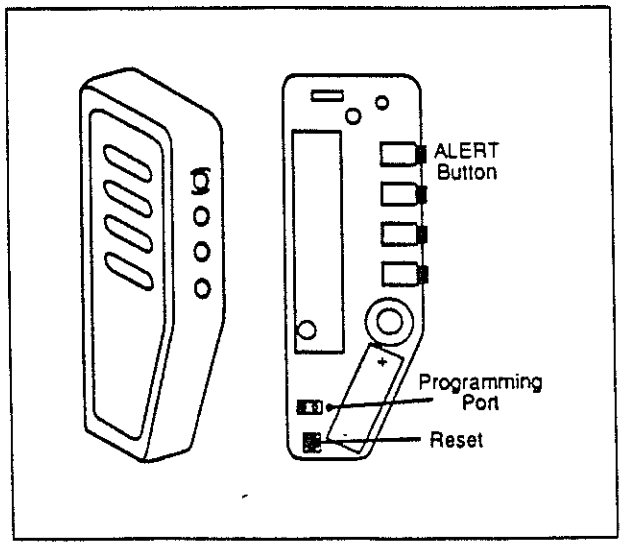
2. Press the Reset button.

3. Complete the program data entry at the Executive Keypad (see TO PROGRAM A POINT, pg. 23). If the data has been previously entered into the Control, select the REVIEW/CHANGE option under the PROGRAM POINT menu, enter the POINT #, and press ENTER. Continue as prompted by the display. When the display indicates "PLUG IN XMITTER", connect the programming cable from the Executive Keypad to the programming port on the transmitter. **Press the Alert button to initiate the programming.** When the programming operation has been confirmed by the Executive Keypad, disconnect the cable.

4. Test point to be sure it is functioning properly.

5. Replace the cover and screw the case halves together.

Figure 6



Recommended Programming:

Type:	24-Hour
Type:	Remote
Monitor:	yes
Audible:	yes
Relay:	yes

C-102 DELUXE KEYPAD

The Deluxe Keypad is used to provide additional security in arming and disarming the system. It is not a supervised device in that it only transmits when manually activated. The Keypad is just a data entry device, it contains no information relative to the system including the access codes. Pressing a digit key causes a transmitted message containing the digit. When the correct access code has been entered by pressing the appropriate digits, the HOME, AWAY and CUSTOM keys may be pressed to arm the system. The control will respond with an audible annunciation when each key is pressed and with the appropriate arming tone when the system has been armed. Proper entry of the access code will disarm the system. A Police Emergency signal can be sent by simultaneously pressing the two keys labeled ALERT.

The Keypad is powered by a high capacity Lithium battery that should provide 8 to 10 years of service. The battery is not field replaceable, but can be replaced at the factory.

To Program the Deluxe Keypad, proceed as follows:

1. Press the Reset button on the back side of the Keypad.

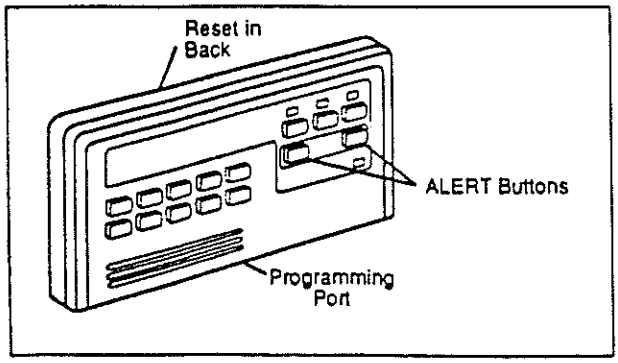
2. Label the transmitter with the numbered labels provided.

3. Complete the program data entry at the Executive Keypad (see TO PROGRAM A POINT, pg. 23). If the data has been previously entered into the Control, select the REVIEW/CHANGE option under the PROGRAM POINT menu, enter the POINT #, and press ENTER. Continue as prompted by the display. When the display indicates "PLUG IN XMITTER", connect the programming cable from the Executive Keypad to the programming port on the transmitter. **Press the #9 key to initiate the programming.** When the programming operation has been confirmed by the Executive Keypad, disconnect the cable.

4. Test point to be sure it is functioning properly.

5. The Keypad may be mounted to the wall using the screws provided.

Figure 7



Recommended Programming:

Type:	24-Hour
Type:	Keypad
Monitor:	yes
Audible:	yes
Relay:	yes

C-200 & C-200W UNIVERSAL TRANSMITTERS

The Universal Transmitter will interface to any non-voltage driven switch. Both normally open and normally closed types can be accommodated. If interfacing to an "open collector" type sensor switch, use care in connecting the common or ground lead from the switch to the (-) outside terminal of the transmitter. The transmitter can reliably be used with up to 20 feet of wire between the transmitter and sensor/switch.

The wire loop going out to the sensor/switch can be supervised for tampering by using the 2.2K End Of Line Resistor provided. If the switch is normally open (in non-alarm state), the resistor should be placed in parallel with the switch. If the switch is normally closed (in non-alarm state), the resistor should be placed in series with the switch.

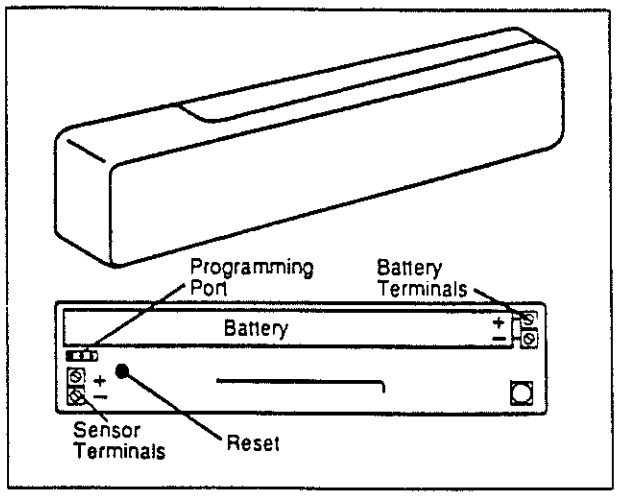
The C-200W version of the Universal Transmitter has a built in magnetic reed switch to operate in conjunction with an external magnet (provided). This eliminates the need to use an external switch although the C-200W can monitor both the internal switch and any external switch (N/O or N/C).

To Install a Universal Transmitter, proceed as follows:

1. Remove the cover from the transmitter.
2. Connect the battery to the battery terminals.
3. Press the reset button.
4. Label the transmitter with a numbered label provided.
5. Complete the program data entry at the Executive Keypad (see TO PROGRAM A POINT, pg. 23). If the data has been previously entered into the Control, select the REVIEW/CHANGE option under the PROGRAM POINT menu, enter the POINT #, and press ENTER. Continue as prompted by the display. When the display indicates "PLUG IN XMITTER", connect the programming cable from the Executive Keypad to the programming port on the transmitter. When the programming operation has been confirmed by the Executive Keypad, disconnect the cable.
6. Replace the cover by positioning the narrow end of the cover to the base and closing the case.
7. Test point to be sure it is functioning properly.
8. Use the drill template to locate the screw holes if the transmitter is to be mounted with screws or use the double-sided adhesive tape and mount the transmitter in the desired location. (Tape should only be used as a temporary means of mounting.)

UNIVERSAL TRANSMITTER (continued)

Figure 8



Recommended Programming:

Type:	Intrusion
Home:	as appropriate
Away:	as appropriate
Point Loop:	as appropriate
E.O.L.	as appropriate
Internal Contact:	no (C-200W yes)
Monitor:	yes
Audible:	yes
Chime:	yes
Check-In:	60 sec.

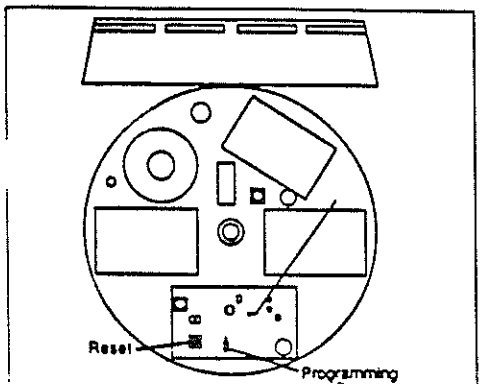
C-201 SMOKE DETECTOR
C-202 PIR DETECTOR
C-203 SHATTERBOX GLASSBREAK DETECTOR

The Smoke Detector, Shatterbox, and PIR are manufactured by quality companies with years of experience in the respective technologies. The manufacturer's installation instructions come with each unit. Each of these units have the same transmitter module and are therefore programmed in the same manner.

To program the devices, proceed as follows:

1. Remove the cover of the device.
2. Connect the battery(ies).
3. Press the Reset button.
4. Label the transmitter with a numbered label provided.
5. Remove the shunt connector from the programming port.
6. Complete the program data entry at the Executive Keypad (see TO PROGRAM A POINT, pg. 23). If the data has been previously entered into the Control, select the REVIEW/CHANGE option under the PROGRAM POINT menu, enter the POINT #, and press ENTER. Continue as prompted by the display. When the display indicates "PLUG IN XMITTER", connect the programming cable from the Executive Keypad to the programming port on the transmitter. When the programming operation has been confirmed by the Executive Keypad, disconnect the cable.
7. Replace the shunt connector on the programming port. This is very important since the transmitter will report a tamper condition if the shunt is not in place. The shunt can be placed on the center pin and either outside pin.
8. Test point to be sure it is functioning properly.
9. Mount the unit per manufacturer's instructions.

Figure 9

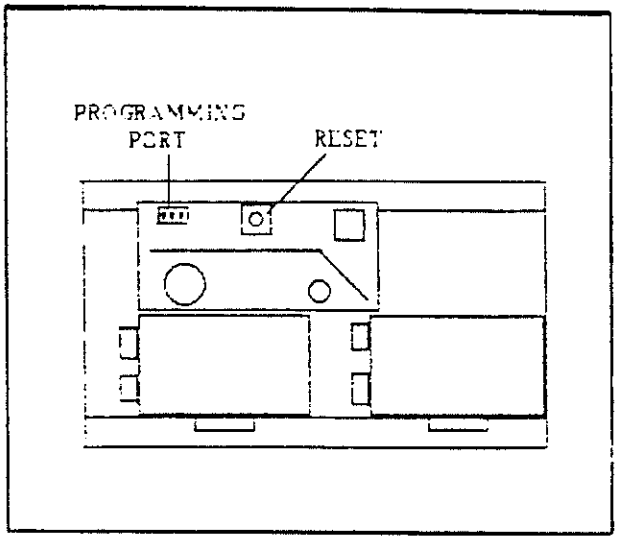


C-201 Smoke Detector Recommended Programming:

Type:	24-Hour
Type:	Fire
Point Loop:	N/O
E.O.L.:	no
Internal Contact:	no
Monitor:	yes
Delayed:	as appropriate
Check-In:	60 sec.

C-202 PIR DETECTOR
C-203 SHATTERBOX (continued)

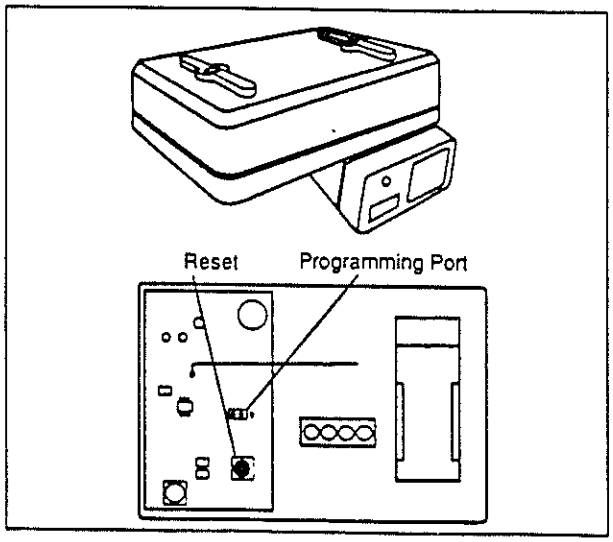
Figure 10



C-202 PIR Detector
Recommended Programming

Type:	Intrusion
Home:	Bypass
Away:	Instant
Point Loop:	N/O
E.O.L.:	no
Internal Contact:	no
Monitor:	yes
Audible:	yes
Chime:	no
Check-In:	60 sec.

Figure 11



C-203 Shatterbox
Recommended Programming

Type:	Intrusion
Home:	Bypass
Away:	Instant
Point Loop:	N/C
E.O.L.:	no
Internal Contact:	no
Monitor:	yes
Audible:	yes
Chime:	no
Check-In:	60 sec.

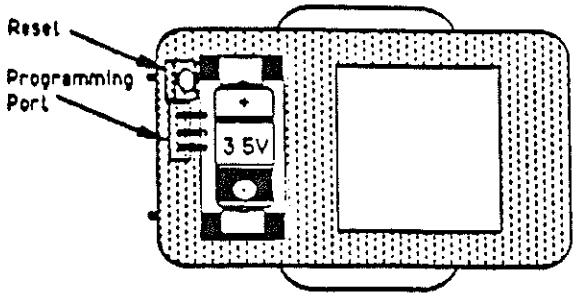
C-204 PENDANT TRANSMITTER

The Pendant Transmitter is available for a personal portable emergency signaling device. It can be programmed to be supervised or used in a non-supervised mode. To insure against false activation, both buttons on either side of the transmitter must be pressed to cause an alarm transmission.

To program the Pendant Transmitter, proceed as follows:

1. Remove the battery cover.
2. Insert the battery into the holder being careful to observe polarity. The battery holder is marked with a (+) sign.
3. Press the Reset button.
4. Label the transmitter with a numbered label provided.
5. Complete the program data entry at the Executive Keypad (see TO PROGRAM A POINT, pg. 23). If the data has been previously entered into the Control, select the REVIEW/CHANGE option under the PROGRAM POINT menu, enter the POINT #, and press ENTER. Continue as prompted by the display. When the display indicates "PLUG IN XMITTER", connect the programming cable from the Executive Keypad to the programming port on the transmitter. When the programming operation has been confirmed by the Executive Keypad, disconnect the cable.
6. Test point to be sure it is functioning properly.
7. Replace the battery cover.

Figure 12



Recommended Programming:

Type:	24-Hour
Type:	Medical
Point Loop:	N/O
E.O.L.:	no
Internal Contact:	no
Monitor:	yes
Audible:	as appropriate
Relay Out:	no
Delay:	no
Check-In:	60 sec.

PROGRAMMING

The system is programmed by inputting information through the Executive Keypad. The Executive keypad displays prompts and menus that lead you through the programming process in a clear, concise manner.

A programming worksheet is provided to help plan the system setup. Information can then be programmed into the system from the worksheet. It is important that the worksheet be retained for as long as the system is in service as it will be of significant assistance should the system ever require service.

To enter the programming sequence, first enter the system MASTER CODE (factory default is 0000), quickly followed by pressing the ADVANCE key, followed by the **Vision 2000** INSTALLER CODE (3446). The display will indicate:

INSTALLATION PGM

Once in the installation program, the ENTER and ADVANCE keys become the means of ADVANCEing through the parameters and ENTERing data. The REVIEW key is the mechanism for backing out of a programming sequence and exiting programming altogether. If you are unsure of the appropriate input or confused about the sequence, press the REVIEW key until you back out to a level you recognize.

With the display indicating INSTALLATION PGM, press the ADVANCE key to step through the menu selection. Sequentially pressing ADVANCE will scroll you through:

PROGRAM PANEL
PROGRAM POINT
DELETE POINT
PROGRAM TELCOM
SIGNAL LEVEL

and back to

PROGRAM PANEL

When the display indicates the desired function, press the ENTER key.

PROGRAMMING THE PANEL

From the main INSTALLATION PGM, press ADVANCE until the display indicates:

PROGRAM PANEL

Press Enter to select programming the panel. The display will automatically bring up the first programming parameter:

SYSTEM ID - 000

The system ID is unique to the system and is provided to keep other systems in close proximity from interfering with each other. Using the digit keys (0-9), enter any number from 0 to 254 and press ENTER. The selected number should be display. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE.

SIREN TIME - 000
(0=cont) Min

Set the length of time in minutes that the relay activated device should be activated when an alarm occurs. An entry of 0 will cause no automatic cutoff.

Using the digit keys (0-9), enter any number from 0 to 255 and press ENTER. The selected number should be displayed. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE.

SPVS WINDOW - 000
(0=none) Hrs

Set the length of time in hours within which the control must receive a report from each of the points in the system. An entry of 0 causes the system to not look for periodic reports from points. A 4 hour window is recommended.

Using the digit keys, enter any number from 0 to 99 and press ENTER. The selected number should be displayed. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE.

FORCE ARM - YES (No)
ENTER to Change

Select whether or not the system can be armed over faults such as an open door, window or inactive point. For ease of operation, selecting YES is recommended. {To select (YES or NO), press ENTER until the desired setting is displayed.} Press ADVANCE.

CHIME ON - YES (NO)
ENTER to Change

Select whether or not to activate the chime on a system wide basis. The chime is an audible two tone chime caused by the opening of an INTRUSION point so programmed when the system is OFF or the point is bypassed. (To select (YES or NO), press ENTER until the desired setting is displayed.) Press ADVANCE.

ENTRY TIME - 000
(0=none) Sec

Select the length of time in seconds that the system can be disarmed after entry through a delayed point before the system initiates the alarm. This same delay time applies to 24 HOUR points programmed with a delay.

Using the digit keys (0-9), enter any number from 0 to 255 and press ENTER. The selected number should be displayed. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE.

EXIT TIME - 000
ENTER to Change

Select the length of time in seconds that the system will ignore INTRUSION reports after the system is armed to allow exiting of the premises.

Using the digit keys (0-9), enter any number from 0 to 255 and press ENTER. The selected number should be displayed. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE.

CODE LIMIT - 000
(0=none) Hrs

Select the length of time in hours that the USER CODE will remain valid. This allows a temporary USER CODE to be set. If 0 is selected, the USER CODE becomes permanent.

Using the digit keys (0-9), enter any number from 0 to 255 and press ENTER. The selected number should be displayed. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE.

USER CODE
0000

Input any four digit access code that is used to arm and disarm the system. The number that is displayed is accepted as the access code.

Press the digit keys to enter the number. The numbers are displayed as the keys are pressed. It is not necessary to press the ENTER key. When the desired number is displayed, press the ADVANCE key.

MASTER CODE
0000

Input any four digit access code for the Master Code. The Master Code not only allows for arming and disarming the system, it also allows access to reviewing alarm information, clearing alarm and fault memory, testing the system, and limited programming.

Press the digit keys to enter the number. The numbers are displayed as the keys are pressed. It is not necessary to press the ENTER key. When the desired number is displayed, press the ADVANCE key.

DURESS CODE
0000

Input any four digit code that can be used to communicate a duress situation to the central monitoring station. The code can be used to arm the system and will visibly and audibly respond just as the user code. If the communicator is programmed in the TELCOM section to call in a duress code, a duress code will be sent. If the communicator is programmed to not respond, the duress code can be used as a second user code.

Press the digit keys to enter the number. The numbers are displayed as the keys are pressed. It is not necessary to press the ENTER key. When the desired number is displayed, press the ADVANCE key.

CUSTOM ARMING
BYPASS PNT -

Any INTRUSION point in the system can be bypassed in the CUSTOM mode. Using the digit keys (0-9), enter any number from 0 to 31 and press ENTER. The selected number will be displayed. To bypass additional points, repeat the process. When all desired points have been set, press ADVANCE.

CUSTOM ARMING
REVIEW / DEL -

The bypassed points will scroll through the display. If any point is to be deleted from the list, press ENTER when the point number is displayed. If satisfied with the selections, press ADVANCE

SYSTEM BYPASS
BYPASS PNT -

Any INTRUSION point in the system can be bypassed for all modes. This is typically used to take a troublesome point out of the system until it can be serviced. It will remain bypassed for one arming cycle. The points cannot be alarmed in bypassed mode, but the bypassed point or points will continue to display as a trouble and the system will have to be forced armed.
When the system is disarmed from an armed mode, the bypassed point is re-activated into the system.

Using the digit keys (0-9), enter any number from 0 to 31 and and press ENTER. The selected number will be displayed. To bypass additional points, repeat the process. When all desired points have been set, press ADVANCE.

SYSTEM BYPASS
REVIEW / DELETE

The display will now indicate REVIEW/DELETE. The bypassed points will scroll through the display. If any point is to be deleted from the list, press ENTER when the point number is displayed. If satisfied with the selections, press ADVANCE.

The programming sequence will roll back to SYSTEM ID. All selections can be reviewed by ADVANCEing through each one. To exit the sequence, press REVIEW until the display indicates INSTALLATION PGM.

PROGRAMMING A POINT

From the main INSTALLATION PGM menu, press ADVANCE until the display indicates

---

PROGRAM POINT

Press Enter to select point programming. The display will prompt with NEW PROGRAM. Pressing ADVANCE will display REVIEW/CHANGE. ADVANCE will cycle back to NEW PROGRAM. If data has not been previously entered for a given point, press ENTER when the display indicates NEW PROGRAM.

NEW PROGRAM

Press ENTER to select. The display will move to the next prompt:

SYSTEM ID - XXX

The system ID is displayed only as confirmation that the system ID has been programmed. If the system ID is incorrect, return to PROGRAM PANEL and make the correct entry. If system ID is correct, press ADVANCE.

POINT# -
ENTER (0 - 31)

Enter a unique ID number to the transmitter point. It is not advisable to assign the same number to multiple transmitters. Using the digit keys (0-9), enter any number from 0 to 31 and press ENTER. The selected number should be displayed. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE.

TYPE = INTRUSION {24-HOUR}
ENTER to Change

There are two types of points, INTRUSION and 24 HOUR. Each type has its own list of programmable parameters. Press ENTER to change to 24 HOUR and ENTER to change back to INTRUSION. Once you have chosen either INTRUSION or 24 HOUR, press ADVANCE to continue. If you chose 24 HOUR, proceed to page 25. (Generally, universal transmitters, PIR's and shatterboxes are intrusion points, while smoke detectors, pendants, remotes and wireless keypads are 24-hour points.)

If you chose INTRUSION and then pressed ADVANCE, the display will prompt with:

HOME - BYPASS {INSTANT, DELAY, FOLLOW}
ENTER to Change

The transmitter can be set for HOME mode operation as either BYPASSed, INSTANT, DELAYed, or FOLLOWer. Selecting BYPASS means that the Control will not respond to an alarm transmission from that point when in the HOME mode. INSTANT means the control will respond instantly to an alarm signal from that point. DELAY means that the control will sound a warning tone during the exit period and respond with full alarm after the exit delay period. FOLLOW means that the control will follow the response of the previous point triggered or will respond instantly if this point is the first to report an alarm.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

AWAY - BYPASS {INSTANT, DELAY, FOLLOW}
ENTER to Change

The transmitter can be set for AWAY mode operation as either BYPASSed, INSTANT, DELAYed, or FOLLOWer.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

POINT LOOP - N/O {N/C}
ENTER to Change

The transmitter can be connected to either a normally open (N/O) or a normally closed (N/C) sensor or switch configuration. The configuration is determined by the non-alarm condition of the switch.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

EOL RESIST - NO {YES}
ENTER to Change

The switch connected to the transmitter can be tamper protected by use of a 2.2k end of line resistor. For a N/O switch, the resistor is placed in parallel with the switch. For a N/C switch, the resistor is placed in series. If loop tamper protection is required, select YES, if no select NO.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

INT CNTCT - NO (YES)
ENTER to Change

The C-200W transmitter has an internal magnetic reed switch that is activated by a magnet placed next to the transmitter. If this option is required, select YES, otherwise select NO. The standard C-200 transmitter does not have an internal contact. If programming a C-200, select NO.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

MONITORED - NO (YES)
ENTER to Change

The YES/NO selection determines whether or not this specific point should be reported to the central monitoring station if it activates the alarm.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

AUDIBLE - NO (YES)
ENTER to Change

This YES/NO selection determines whether or not this specific point should cause an audible alarm when an alarm signal is sent.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

CHIME - NO (YES)
ENTER to Change

This YES/NO selection determines whether or not this specific point should cause the chime tone to sound when the transmitter is activated while the system is OFF or if the POINT is bypassed in the HOME or CUSTOM mode.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

CHECK-IN = 60 SEC {NONE, 10, 30}
ENTER to Change

The transmitter can be set to check in periodically. It can be set to report automatically every 10, 30 or 60 seconds or not at all. A setting of 10 seconds will yield the best overall system responsiveness. A setting of 60 seconds will provide the longest battery life. The setting has no effect on the reliability of alarm transmissions.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

TYPE = 24 HOUR {INTRUSION}
ENTER to Change

If 24-HOUR type was selected, there are 6 types of 24-HOUR points to select from. Press ENTER t o select. The display will move to the next prompt.

TYPE = FIRE {MEDICAL, POLICE, SPECIAL,
REMOTE,KEYPAD}
ENTER to Change

The transmitter can be set to report FIRE, MEDICAL or POLICE emergencies. The SPECIAL type is for any other situation (water level or temperature sensing for example). The REMOTE type is for the Remote arming transmitter and the KEYPAD type is for the wireless arming keypad.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

RELAY OUT - YES {NO}
ENTER to Change

If the RELAY option is chosen by selecting YES, a 24-HOUR point will cause an AUDIBLE response as opposed to a silent response and the AUXILIARY relay will be activated upon transmission of an alarm signal. If NO is selected, a low level alert tone is generated by the control and provided at the AUDIO outputs.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

DELAYED - YES (NO)
ENTER to Change

Some 24-HOUR points can have a delayed alarm response. If this is desired, select YES, otherwise select NO. The amount of delay is the same as you programmed for the entry delay when programming the panel.

Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

ENTER to Program
ADV to Review

After all the information for a specific point has been entered, the display will prompt with:

Pressing ADVANCE will allow review of all the parameters for the point. ADVANCE will step down through each parameter. Any parameter can be changed as described above, but to cause the information to be saved you must ADVANCE back to:

ENTER to Program
ADV to Review

Pressing ENTER causes all the programmed information to be stored in the control and will bring up the prompt:

Plug in Xmitter
or press ADVANCE

A programming cord is connected to the Executive Keypad and then to the transmitter to load the transmitter with program information. If programming of the transmitter was successful, the display will indicate ACCOMPLISHED. Pressing ADVANCE will return programming to selecting a new point number.

To exit press REVIEW.

DELETING A POINT

From the main INSTALLATION PGM Menu, press ADVANCE until the display indicates:

DELETE POINT

Press ENTER. The display will prompt for a Point #.

POINT # -
Enter (0 - 31)

Using the digit keys (0-9), enter any number from 0 to 31 and press ENTER. The selected number should be displayed. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE. The display will indicate ACCOMPLISHED and the Keypad will beep to indicate that the point has been deleted.

The display will then prompt again for a Point #. Additional points may be deleted.

To exit, press REVIEW.

PROGRAMMING THE COMMUNICATOR

From the main INSTALLATION PGM Menu, press ADVANCE until the display indicates:

PROGRAM TELCOM

Press ENTER. The display will indicate INITIALIZING. After initialization, the display will prompt with:

PHONE #

If a phone number has not been previously set, the display will be blank and a number may be entered. If a phone number has already been set, it will be displayed. If it is correct, press ADVANCE. To change it, press ENTER. The existing number will be deleted and the display will be blank.

A phone number can be entered one digit at a time by pressing the desired digit and pressing ENTER. Blank spaces, hyphens, or parenthesis are not required and cannot be entered.

Special functions may be inserted into the phone number by using HEX codes. Hex digits can be entered by entering the decimal equivalent (A=10, B=11, C=12, D=13, E=14, F=15) and pressing ENTER. The special functions are Second Dial Tone, Dialing Pause, and Delete Call Waiting.

Second Dial Tone - In installations where two dial tones are received (first for internal line, second for outside line), enter a **14(E)** between the internal line number and the outside line number.

Dialing Pause - In areas where a dialing pause is required, enter a **15(F)** at any point in the phone number where the pause is needed. The pause is approximately 5 seconds.

Delete Call Waiting - If call waiting is in use at the installation, check with the local telephone company for the exact sequence or numbers to be dialed before the dialed phone number. In general, enter **11 7 0** before the phone number.

When the entry is complete, press ADVANCE.

ACCT #

An account number can be entered one digit at a time by pressing the desired digit and pressing ENTER. Hex digits can be entered by entering the decimal equivalent (A=10, B=11, C=12, D=13, E=14, F=15) and pressing ENTER. When the correct account number is entered, press ADVANCE.

If an account number has not been previously set, the display will be blank and a three digit number may be entered. If an account number has already been set, it will be displayed. If it is correct, press ADVANCE. To change it, press ENTER. The existing number will be deleted and the display will be blank.

DIALING = PLS (TT)
ENTER to Change

The dialing format can be selected as either Touch Tone (TT) or Pulse (PLS). Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

REPORTING = NORM (EXT)
ENTER to Change

The communication format can be selected as either 3X1 (NORM) or 3X1 (EXTD). Press the ENTER key to change the selection. The selected option will be displayed. If the display indicates the desired selection, press ADVANCE.

RESTORE CODE - 0

Reporting of a Restore Code can be disabled or set to Hex 1-F. To disable restoral reporting, press 0 and then ENTER. To enable restoral reporting, enter the decimal equivalent (A=10, B=11, C=12, D=13, E=14, F=15) and press ENTER. When the desired code is displayed, press ADVANCE.

FIRE CODE	- 00
MEDICAL CODE	- 00
POLICE CODE	- 00
DURESS CODE	- 00
INTRUSN CODE	- 00
SPECIAL CODE	- 00
FRC ARM CODE	- 00
TROUBLE CODE	- 00
BB FAIL CODE	- 00
AC FAIL CODE	- 00
ARMING CODE	- 00

The above alarm or alert conditions can be assigned a code number 1 to 8 or can be set to not report by assigning 0. The display will prompt for each condition. Using the digit keys (0-8), enter the code number and press ENTER. The selected number should be displayed. If you want to change it, re-enter a number and press ENTER. When satisfied with the setting, press ADVANCE. If DURESS is to be enabled by assigning a non-zero code number, care should be taken to ensure that the code number for duress is not reassigned to any other condition. This also applies to ARMING. All other conditions may be grouped under the same code assignment if desired.

FIRE, MEDICAL, POLICE, and **SPECIAL** are reported upon full alarm activation caused by an alarm activation from the respectively assigned points. Restoral is reported upon siren time out or system deactivation.

INTRUSION is reported upon full alarm activation caused by an intrusion point when the system is armed in the HOME, AWAY, or CUSTOM mode. Restoral is reported upon siren time out or system deactivation.

FRC ARM CODE will notify the Central Monitoring Station that the system has been armed over an unsecured point.

TROUBLE CODE will be reported if there are point faults (low battery, tamper, unsecured, inactive) at the time the system is armed or if such faults occur while the system is armed in the AWAY mode.

BB FAIL CODE applies to panel Backup Battery Failure. It is reported when the condition is detected. It is not restored until the memory is cleared either at the panel or via the Executive Keypad.

AC FAIL CODE will be reported only if an AC failure exists at the time the control is armed into the AWAY mode or at the time of a alarm restoral report.

ARMING CODE is reported at the end of the exit mode when the system is armed in the AWAY mode. When the system is disarmed from the AWAY mode, the ARMING CODE restoral is sent.

COMMUNICATOR MESSAGES

Signal	When Sent	Restoral Sent
Fire	When occurs	When disarmed/siren time out
Medical	When occurs	When disarmed/siren time out
Police	When occurs	When disarmed/siren time out
Duress	When occurs	N/A
Intrusion	When occurs	When disarmed/siren time out
Special	When occurs	When disarmed/siren time out
Trouble Unsecured Inactive Tamper Low Battery	Sent only if present at time of arming or if system is armed in AWAY mode.	When disarmed/no trouble exists Tamper and Low Battery conditions must be manually cleared.
BB Fail	When occurs	When manually cleared
AC Fail	Sent only if present at time of arming, disarming or at end of siren time out	When armed or disarmed
Arming Code	When armed	When Disarmed

TESTING THE SYSTEM

The last step in the installation process is to test the system. The signal level of all the transmitters should be reviewed to insure that all points can communicate reliably. In addition, the system should be put in the TEST mode and tested.

From the Executive Keypad, enter the following sequence:

Master Code (4 digits)
ADVANCE
Installer's Code (3446).

The display will indicate INSTALLATION PGM. Press ADVANCE until the display indicates:

SIGNAL LEVEL

Press ENTER to select. By pressing ADVANCE, each point can be reviewed for signal level. The indication will be GOOD or WEAK. An indication of GOOD means that there is adequate signal margin received by the Receiver to insure reliable communications. If the indication is WEAK, corrective action should be taken. Try to reposition either the transmitter or receiver so that the signal path might be optimized. If this cannot be easily done or if there is not apparent reason for signal degradation, add a secondary Receiver to the system.

To exit press REVIEW.

To enter the TEST mode, enter the following sequence at the Executive Keypad:

Master Code (4 digits)
REVIEW.

The display will indicate REVIEW ALARMS. Press the ADVANCE key until the display indicates:

TEST SYSTEM

Press ENTER. The system will now be in the TEST mode. The Beware tones will sound and will sound every minute thereafter as a reminder that the system is in test mode.

When the system enters the TEST mode, it declares all transmitters to be INACTIVE. It requires each point to report in before it will consider it active (or functioning). Within 5 minutes, press the REVIEW key to observe any faults in the system. If any point is displayed as INACTIVE, it has either not been programmed, not been programmed properly, or the point is not working.

While the system is in the TEST mode, any point that reports an alarm will cause the Control to sound a two tone chime. This can be used to test the proper operation of all sensors and switches in the system.

To exit the TEST mode, enter a valid access code at the Keypad.

REVIEW

To review troubles, press **REVIEW**. It will scroll through any troubles such as tamper, inactive, insecure, or battery faults.

If any point is displayed as **TAMPERED**, the point has not been put back together securely, the cover has not been replaced, or it has not been cleared from memory.

If any point is displayed as **UNSECURED**, there may be an open door or window, a sensor is in the faulted condition or the point has not been properly programmed as far as N/O or N/C. When the faulted condition is returned to normal, the trouble condition automatically clears.

If any point is displayed as **INACTIVE**, the Control has not received a check-in message from the transmitter during the SPVS Window time period. Either the battery is dead, the transmitter is missing or broken, or the system is programmed incorrectly. The trouble condition automatically clears when the Control receives a check-in message.

AC FAIL means AC power to the Control/Communicator has failed. Power outages less than one or two minutes will not be reported. When power is restored, the trouble condition automatically clears.

BB FAIL means the backup battery for the Control/Communicator is low or missing. When the battery recharges itself, the trouble condition will automatically clear.

BACKUP BATTERY Faulted means that the Backup Battery has either not been hooked up or the trouble message has not been cleared from memory.

QUICK HELP

Installation Program - Master Code, ADVANCE, 3446

Program Panel - Master Code, ADVANCE, 3446, ADVANCE

Program Point - Master Code, ADVANCE, 3446, ADVANCE, ADVANCE

Signal Level - Master Code, ADVANCE, 3446, ADVANCE, ADVANCE, ADVANCE, ADVANCE,ADVANCE

Clear Memory - Master Code, REVIEW, ADVANCE, ENTER

Test System - Master Code, REVIEW, ADVANCE, ADVANCE, ENTER

Review Troubles - REVIEW

Reset Master Code to 0000 -

1. Press and hold the RESET button.
2. Press and hold the REVIEW button.
3. Release the RESET button. Control will begin "ringing."
4. When the ringing stops, release the REVIEW button.

Reset All Programming -

1. Press and hold the RESET button.
2. Press and hold the REVIEW button.
3. Release the RESET button. Control will begin "ringing."
4. Quickly release the REVIEW button.
5. Press and hold the CLEAR button.
6. When the ringing stops, a four tone confirmation will indicate that the system has been reset.
7. Release the CLEAR button.

Vision 2000 Programming Worksheet

Name LONG RESIDENCE Address 1234 ELM STREET

Phone 503-999-9999 City/State/Zip ANY TOWN OR 97005

Date of Installation 1-3-90 Telco Jack Location LAUNDRY ROOM

AC Transformer Location LAUNDRY ROOM

1. Program Panel

System I.D. 1 0 1 Siren Time 5 min (0-254 min.) SPVS Window 6 hrs (0-254 hrs.) Force Arm Yes (yes/no)

Chime Yes (yes/no) Entry Time 30 Sec (0-254 sec.) Exit Time 45 Sec (0-254 sec.) Code Limit 4E HRS (0-254 hrs)

User Code 2 0 2 0 Master Code 2 0 0 1 Duress Code ____

2. Intrusion Points

I.D. No.	Point Description	Home				Away				Point Loop		Check if Yes					Check-In				Cust.	
		Bypass	Instant	Delay	Follow	Bypass	Instant	Delay	Follow	N/O	N/C	EOL Rsstr	Int. Contct	Monitor	Audible	Chime	Never	10 Sec	30 Sec	60 Sec	Bypass	Include
1	FRONT DOOR C200			✓				✓			✓			✓	✓	✓				✓		
2	BACK DOOR C20C			✓				✓			✓			✓	✓	✓				✓		
3	FRONT HALL C2C2	✓							✓	✓				✓	✓					✓		
4	BEDROOM HALL C2C2	✓					✓			✓				✓	✓					✓		
5	FRONT WINDOW C2C3		✓				✓				✓			✓	✓					✓		
6	BACK WINDOW C2C3		✓				✓				✓			✓	✓					✓		
7	GUN CABINET C2CC		✓				✓				✓			✓	✓					✓		

Vision Plus Programming Worksheet

Name _____ Installer _____

Address _____ Date of installation _____

City/State/Zip _____ Panel location _____

Phone _____ Telco jack location _____

Program Panel

System I.D. _____ (0-254)

Siren time _____ (0-254 minutes)

SPV window _____ (0-100 hours)

EZ arming enabled _____ (yes/no)

Force arming enabled _____ (yes/no)

Entry Time _____ (0-254 seconds)

1, 3, 5, 7, or 9 as last digit of entry delay disables entry warning tones

Exit Time _____ (0-254 seconds)

Aux Relay Use _____ (0-8, 0=disabled)

1=Active during entry/exit delay
2=Active when system armed in away mode
3=Active during FIRE alarm
4=Active during alarm on point 5
5=Active during alarm on point 6-14
6=Active during keypad SPECIAL alarm
7=Toggle when user code 6 entered
8=Latching after communicator failure

Code 1 limit _____ (0-254 hours)

User code 1	_____	User 1	_____
User code 2	_____	User 2	_____
User code 3	_____	User 3	_____
User code 4	_____	User 4	_____
User code 5	_____	User 5	_____
User code 6	_____	User 6	_____
Duress code	_____		
Master code	_____		
Dealer code	_____		

Program Telcom

Telcom: ☐ Enable ☐ Disable

Download: ☐ Enable ☐ Disable

1st Phone # _____

2nd Phone # _____

A=10=same as 0 D=12=Wait for 2nd dial tone
B=11=* E=14=2 second pause
C=12=# F=15=5 second pause

Acct. # _____

Dial: ☐ Pulse ☐ Tone

Sequence _____

0=1st number only 3=1st and 2nd always
1=1st number preferred, 2nd as backup 4=Split reporting
2=2nd number only

Reporting Format: ☐ 3x1 ☐ 3x1 Ext ☐ 4x2 ☐ 4x2 Map

PLS Rate: ☐ 10pps ☐ 20pps ☐ 40pps

Zone table

0-9 or A-F (0 = unprogrammed) [A=10 (reports as 0) B=11 C=12 D=13 E=14 F=15]

Point 1 _____	Point 9 _____	Point 17 _____	Point 25 _____	Point 33 _____	Point 41 _____
Point 2 _____	Point 10 _____	Point 18 _____	Point 26 _____	Point 34 _____	Point 42 _____
Point 3 _____	Point 11 _____	Point 19 _____	Point 27 _____	Point 35 _____	Point 43 _____
Point 4 _____	Point 12 _____	Point 20 _____	Point 28 _____	Point 36 _____	Point 44 _____
Point 5 _____	Point 13 _____	Point 21 _____	Point 29 _____	Point 37 _____	Point 45 _____
Point 6 _____	Point 14 _____	Point 22 _____	Point 30 _____	Point 38 _____	Point 46 _____
Point 7 _____	Point 15 _____	Point 23 _____	Point 31 _____	Point 39 _____	Point 47 _____
Point 8 _____	Point 16 _____	Point 24 _____	Point 32 _____	Point 40 _____	Point 48 _____

Zone assignment not required for 3x1 or 4x2 MAP formats. Zones MUST be assigned for points to be monitored when using 3x1 EXTENDED or 4x2 formats.

System zone is zone associated with system events such as AC fail, BB fail, etc.

System zone _____

Code table

0-9 or A-F (0 = unprogrammed) [A=10 (reports as 0) B=11 C=12 D=13 E=14 F=15] For 4x2 MAP format, enter a 1 for each condition to be reported.

Alarm _____	PT Bypass _____	Police _____	Telcom Test _____	Restore AC _____
PT Restore _____	Opening _____	Special _____	BB Fail _____	Restore RX _____
PT Trouble _____	Closing _____	Duress _____	AC Fail _____	Restore SYS _____
PT Inactv _____	Fire _____	Cancel _____	RX Fail _____	Dwnld OK _____
PT Low Batt _____	Medical _____	Force Arm _____	Restore BB _____	Dwnld Fail _____

Intrusion Points

I.D. No.	Point Description		Home				Away				Custom		Point Loop		Check if Yes					Check-In			
		HW Loop	Bypass	Instant	Delay	Follow	Bypass	Instant	Delay	Follow	Bypass	Include	N/O	N/C	EOL RES	INT CNTCT	Montiored	Audible	Chime	None	10 Sec	30 Sec	60 Sec

24-Hour Points

I.D. No.	Point Description	H/W Loop	Type: Fire	Medical	Police	Special	Remote	Keypad	Point Loop: N/O	N/C	Check if Yes: EOL RES	INT CNTCT	Monitored	Audible	Relay	Delayed	Check-In: None	10 Sec	30 Sec	60 Sec

24-hour point suggested programming

Device	TYPE	H/W LOOP	POINT LP	EOL RESIST	INT CNTCT	MONITORED	AUDIBLE	RELAY OUT	DELAYED	CHECK-IN
C-100 remote control	REMOTE	NO	--	--	--	YES	YES	YES	--	--
C-102 deluxe keypad	KEYPAD	NO	--	--	--	YES	YES	YES	--	--
C-201 smoke detector	FIRE	NO	N/O	NO	NO	YES	--	--	as appropriate	60 sec
C-204 pendant panic	POLICE	NO	N/O	NO	NO	YES	YES	YES	--	60 sec
Hardwire keyswitch	REMOTE	YES	--	--	--	--	--	--	--	--
Hardwire smoke	FIRE	YES	--	--	--	--	--	--	--	--

Intrusion point suggested programming

Device	HOME	AWAY	CUSTOM	H/W LOOP	POINT LP	EOL RESIST	INT CNTCT	MONITORED	AUDIBLE	CHIME	CHECK-IN
C-200W universal transmitter	as appropriate	as appropriate	as appropriate	NO	as appropnate *	as appropriate *	YES	YES	YES	YES	60 sec
C-200 universal transmitter	as appropriate	as appropriate	as appropriate	NO	as appropriate	as appropnate	NO	YES	YES	YES	60 sec
C-203 Shatterbox	BYPASS	INSTANT	as appropriate	NO	N/C	NO	NO	YES	YES	NO	60 sec
C-206 Sharpshooter PIR	BYPASS	as appropriate	as appropriate	NO	N/C	NO	NO	YES	YES	NO	60 sec

* applies to EXTERNAL contacts only. If no external contacts are to be used, POINT LP should be set to N/O, and EOL RES should be set to NO.