

5-051-191-00 Rev G

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BEFORE YOU START

Scope of This Manual

This manual contains basic installation and programming information for the SYSTEM 236 control/communicator. For detailed information about remote programming, please refer to the Commander II/Monitor II Operating Manual (P/N 5-051-221-00).

Accuracy

This manual has been carefully checked for accuracy. However, C&K SYSTEMS assumes no liability for inaccuracies or actions resulting from the use of this manual. In addition, C&K reserves the right to modify the SYSTEM 236 hardware, software, and manuals without prior notice.

Residential Configuration

The following list of options are recommended for a standard SYSTEM 236 installation in a residential environment:

- 1. Program the audible to sound for at least four minutes before silencing.
- 2. No zones should be programmed for silent alarm.
- 3. Fire zones should be programmed for pulsing audible alarm.
- 4. Burglar zones should be programmed for a steady audible.
- 5. Burglar loops should be programmed for EOL.
- 6. Entry Delay should not be greater than 45 seconds.
- 7. Exit Delay should not be greater than 60 seconds.
- The Dynamic Battery Test should be enabled. 8
- The Unit Status Report should be enabled. 9.
- 10. The 24-hour Check-in (Test Report) should be enabled.

Recommended Setup (continued)

- 11. The communicator should not be programmed for Delay Before Dial.
- 12. The system must not be programmed to dial a police station.
- 13. Use screws (supplied) to secure cover or install a lock on the cabinet.

BURGLAR LOOP

No Delay Before Dial

500mS Loop Response Time

NO/NC with EOL

Steady audible

14. Loop Response Time should be set to 500mS.

Zone Programming

- FIRE LOOP · No Delay Before Dial
- 24-hour arming
- Pulsing audible
- Supervised
 - latching for heat - resetting for smoke
- Not shuntable
- 500mS Loop Response Time

INSTALLATION

Mounting

The SYSTEM 236 should be mounted in a location which allows convenient access to AC power, telephone connections, and earth around.

- Remove the circuit board from the cabinet. This will prevent possible damage to the PCB when removing the knock-outs.
- Remove the knock-outs, as required.
- Mark the screw mounting holes on the wall.
- Mount the cabinet at the desired height and pass the cables through the knock-outs.
- · Replace the circuit board, remembering to connect the ground lug to the lower left corner of the circuit board.
- Reconnect the spade lug to the lower door hinge. This provides the earth ground connection for the door.

Earth Ground

To ensure the effectiveness of the lightning and transient protection circuits, the control panel must be connected to "Earth Ground". Ideally, this should be a common ground to the power lines, telephone system, and security system. This type of ground, called a "Unified Earth Ground", provides the best protection. The ground connection, from a grounding rod, cold water pipe or other established ground point, is made to the green jacketed wire providing a ground to the panel housing.



WIRING THE PANEL

STANDBY BATTERY

The SYSTEM 236 is designed to operate using a 12 V, 6.5 A-H (Model 1265) or 12 V, 4.0 A-H (Model 1240) sealed lead-acid battery. Do not use non-rechargeable batteries or batteries other than sealed lead-acid. It is recommended that you replace the standby battery every four to six years.

Install the battery with the terminals oriented toward the hinge side of the case and the battery mounted as close to the hinge as possible. Connect the red lead to the positive terminal of the battery and the black lead to the negative battery terminal. The panel is electronically protected against reverse battery polarity.

WARNING:

Improper placement of the battery may result in ground R trace shorting on the PCB.

AC POWER

Terminal Label:



AC power is supplied from a 16.5 VAC, 25 - 40 VA transformer at 50 or 60 Hz. A UL listed Class 2 transformer must be used. Connect the secondary of the transformer to the terminals labelled AC on the SYSTEM 236. Use at least 18 AWG (1.02

AC

mm) wire to reduce voltage drops. The primary side of the transformer must be connected to an unswitched receptacle. Do not connect primary to Ground-Fault-Interrupt (GFI) circuits. Secure the transformer to the wall.

AC Power Failure

If an AC power failure lasts more than 15 minutes, the keypads will display a system trouble and an AC failure report will be sent, if programmed. When AC is restored for five minutes, the restoral report will be sent.

Precautions

- DO NOT share the secondary of the transformer with other devices. A foreign ground can damage the power supply, voiding the warranty.
- DO NOT use any transformer other than that specified in the AC POWER section above.

Available Power

The maximum total power available at the BELL(+), AUX(+), and KEY (+) terminals is 800 mA. The switched auxiliary and keypads share the same power bus. The combined power for the AUX(+) and KEY(+)terminals is 400 mA. Do not exceed 400 mA for all keypads and auxiliary devices.

AUDIBLE OUTPUT



The BELL(+) Terminal (Audible output) provides up to 800 mA at 9.5 - 14.0 VDC.

Terminal Label:

BELL & C

Fuse F1

The BELL(+) Terminal is protected by a 3 AG, 1.0 A, slow-blow fuse (F1). If any fuse opens, remove AC and DC power, remove the short or overload condition, then replace the fuse before restoring power. Do not substitute a higher rated fuse.

Electromagnetic Interference

Vibrating horns can produce electromagnetic interference (EMI). While EMI will not damage the SYSTEM 236, it can cause transmission errors and mis-dialing. To minimize EMI, install a 0.01 mfd, 100 V capacitor across the terminals of the horn. The capacitor must be located in the horn.

SWITCHED AUXILIARY POWER





The AUX(+) Terminal provides a positive 9.3-14.0 VDC for auxiliary devices that require switched power for resetting. Typical devices include glassbreak and smoke detectors.

The Terminal labelled C provides the power common.

ARMING STATIONS

Terminal Label: KEY, C, & DATA





KEY (+) Terminal (red) provides 9.8 - 14.0 VDC keypad power. C (-) Terminal (black) is common. DATA Terminal (green) is for keypad data.

Maximum wire length for connecting any keypad is 500' (152 m) of 22 AWG (0.643 mm) copper wire.



Connect the keypad to the control panel as shown in the diagram above. The Alpha Plus keypad also has a jumper, located near the piezo, that must be installed when used with the System 236 control panel.

The SYSTEM 236 is capable of addressing up to seven Alpha and four LED keypads. Each LED keypad uses 40 mA of current. Each Alpha Il keypad uses 64 mA of current. See Available Power for current limitations. See pages 4 - 5 for additional information on keypad setup.

Fuse F2

KEY (+) Terminal is protected by a 3 AG, 0.5 A, fast-blow fuse.



Each loop is independently configured through programming. Loops can be wired with an open circuit switch, or closed circuit switch, or with a 2.2K ohm end-of-line (EOL) resistor.

When programmed as EOL, either an open or a short will be reported as an alarm if the system is in an armed state.



When operated as a Supervised Loop, an open will be reported as a Trouble, whether the system is armed or disarmed. A short on a Supervised Loop will be reported as an alarm if the system is armed, but will have no effect if the system is disarmed.

TAMPER SWITCH INSTALLATION

C&K has designed the SYSTEM 236 cabinet to use the **Ademco Model 19** tamper switch. The cabinet is constructed in order to accommodate two switches. One tamper for the cover and a second switch for a wall tamper. To install the tamper switches:

- Position the tamper switch inside the cabinet at the lower right corner of the cabinet. For the wall tamper, the plunger should go through the small hole in the back of the cabinet. For the door tamper, the plunger should face out from the cabinet. Refer to the drawing below.
- 2. Connect the tamper switches in series and wire the tamper terminals to a dedicated zone of the control panel.
- 3. Program the dedicated zone as desired: NC, EOL, 24-hour, etc.

Once the tamper switches are installed, opening the cabinet door or removing the cabinet from the wall will result in a tamper signal at the panel.

Tamper Switches installed in the SYSTEM 236 cabinet



TELEPHONE INTERFACE



Use the 9.X PCF cord to connect the SYSTEM 236 to the phone line. The cord has a modular connector on one end to plug into the wall outlet and flying leads on the other end to connect to the panel. Wire the phone connector as follows:

9.X PCF

The 9.X PCF has eight flying leads on one end.

RED = ring (R) GREEN = tip (T) GRAY = ring seized (R1) BLUE and ORANGE = tamper YELLOW and BLACK = not used



SYSTEM START-UP

Fifteen minutes after the panel is powered up, it will dynamically test the standby battery by interrupting AC power for two minutes and monitoring the battery under load.

Standby Battery Time with One LED Keypad

AUX POWER DRAIN*	STAND	BY TIME
	6.5 A-H Battery	4.0 A-H Battery
50 mA	32 hours	_
70 mA	_	24 hours
150 mA	24 hours	_
300 mA	14 hours	_
400 mA	12 hours	7 hours
*Total power for all keypads and auxiliary		

If you replace the battery after a SYSTEM TROUBLE - LOW BATTERY message, you must re-test the battery under load conditions. Press [*] [6] [4] [#] to start the Dynamic Battery Test.

Voltage Variations

Output voltages will vary between 9 and 14.4 VDC (worst case), depending on the load and battery condition.

KEYPAD SETUP

ALPHA KEYPAD INFORMATION

The Alpha keypad uses a top viewing display. This means the display reads most clearly when viewed from a top angle rather than straight on or from below. Mounting the keypad at the light switch level and adjusting the viewing angle gives the best results.

Adjusting the LCD Display

To adjust the viewing angle, remove the keypad from the back mounting plate. Towards the bottom center of the circuit board is a small hole. Insert a small screwdriver into the hole and adjust **R23**, while holding the keypad at its mounting height. Adjust the potentiometer as necessary for optimum viewing.

ADDRESSING KEYPADS

Each Alpha and LED keypad installed in the system must have an address. Addresses must not be repeated. When replacing a keypad, make sure the replacement has the same address as the previous keypad. Once all keypads have been addressed, reset the panel by pressing [Master Combination] [*] [6] [8] [#] or by removing and restoring both AC and DC power.

Addressing Alpha Keypads

The first time you power up the system, unaddressed Alpha keypads will display **KEYPAD ADDRESS?**. Press any number from 0 through 7 at each keypad. The exact number you press is not important, as long as each keypad has a different address number. The keypad will not accept values outside of this range. Should you accidentally use the same address for more than one keypad, the system will fail to properly respond to keypad input. Refer to page 24 for assistance in correcting this problem.

Addressing LED Keypads

The LED keypad also requires an address. The address on the LED keypad is set by two jumpers (W1 and W2) on the printed circuit board.



The chart below shows how to set Jumpers **W1** and **W2** to set the address of LED keypads. Any address from 8 to 11 can be used. The exact number is not important, as long as each LED keypad in the system has a different address number. In the event that two

keypads are accidently given the same address, the system will fail to respond to keypad input. Refer to page 24 for assistance in correcting this problem.

W1	W2	KEYPAD ADDRESS
Installed	Installed	8
Removed	Installed	9
Installed	Removed	10
Removed	Removed	11

FACTORY SETTINGS

DEFAULT VALUES

The default programming of the SYSTEM 236 will allow you to use it as a local panel without any additional programming. The actual default programming values are shown on the Programming Worksheet.

NOTE: If you connect power before wiring the loops, install a 2.2K EOL resistor across each loop.

Combinations

Installer combination: 0 1 2 3 4 5 User #1 (Master) combination: 1 2 3 4 User #2 - 6: disabled Default installer combination: yes Combination required: no Faulted Arming type: goof-proof Opening/closing: no Users authorized to send O/C reports

Reporting

Account #1: 000000 Dialing type: pulse RPS allowed: yes

Zones

Zone 1 = entry/exit delay, EOL circuit Zone 2 = interior, EOL circuit Zone 3 = doors or windows, EOL circuit Zone 4 = doors or windows, EOL circuit Zone 5 = doors or windows, EOL circuit Zone 6 = fire or smoke - supervised EOL circuit Panic soft zone: pulsed audible, non-reporting

Testing

Test report interval: 7 days, disabled

Timing

Entry time: 60 seconds, prewarn Exit time: 30 seconds, prewarn Bell time: 5 minutes

Unit Control:

Local system: yes Dynamic battery test: off

PROGRAMMING OPTIONS

The following is an alphabetical listing of all SYSTEM 236 programming options, including Command Locations and Digit Positions. Digit Positions are inside parentheses ().

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Option	Location
AC Fail Report Code	18 (3)
AC Line Frequency	08 (6)
AC Restore Report Code	18 (4)
Account Number	0B (1 - 6)
Audible Time	1B (3)
Autohome Enable	1B (6)
Bell Fuse Fail Report Code	18 (1)
Bell Fuse Restore Report Code	18 (2)
Cancel Report Code	15 (3)
Closing Report Code	16 (3)
Combination Command	08 (5)
Completed Programming Report Code	17 (4)
Daily Battery Test Enable	08 (4)
Default Installer Combination	08 (3)
Delay Before Dial Enable	25 (1 - 6)
Delay Before Dial Time	1B (4)
DialAttempts	09 (2)
Dial Type	09 (6)
Disable Instant/Home Exit Delay	1B (5)
Disable Loop LEDs	08 (1)
Door Chime Enable	23 (1 - 6)
Entry Delay Time	1B (1)
Event Report Receiver Select	15 (1)
Exit Delay Time	1B (2)
Failed To Communicate Report Code	17 (3)
Faulted Arming Type	08 (2)
Installer Combination	00 (1 - 6)
Keypad RPS Enable	09 (4)
Local System Only	09 (1)
Loop Alarm Report Code	1C (1 - 6)
Loop Arming Type	1D - 22 (4)
Loop Audible Type	1D - 22 (5)
Loop Circuit Type	1D - 22 (6)
Loop Receiver Select	1D - 22 (2)
Loop Response Time	1D - 22 (1)
Loop Restore Reporting Code	15 (5)
Loop Restore Type	1D - 22 (3)
Loop Shunting Enable	24 (1 - 6)
Loop Shunt Report Code	15 (2)
Low Battery Report Code	18 (5)
Low Battery Restore Report Code	18 (6)
Master Code	01 (1 - 4)
Opening Report Code	16 (2)
Opening/Closing Report Receiver Select	16 (1)
Panic Audible Type	19 (4)
Panic Report Code	19 (1 - 2)
Panic Report Receiver Select	19 (3)
Phone Ring Type	09 (5)
Receiver #1 Message Format	0A (2)
Receiver #1 Phone Number	0C - 0E (1 - 6)
Receiver #1 Receive Format	0A (1)

Option	Location
Receiver #2 Message Format	0A (4)
Receiver #2 Phone Number	0F - 11 (1 - 6)
Receiver #2 Receive Format	0A (3)
RPS Enable	09 (3)
RPS Phone Number	12 - 14 (1 - 6)
Set Test Report Countdown Timer	A0 (1)
Test Report Code	1A (1 - 2)
Test Report Interval	1A (4)
Test Report Receiver Select	1A (3)
Trouble Report Code	15 (4)
Trouble Restore Code	15 (5)
Unit Status Report Code	17 (1)
User Arming Type	07 (1 - 6)
User Combinations	01 - 06 (1 - 4)
Watchdog Reset Report Code	17 (2)

PROGRAMMING THE PANEL

You can program the SYSTEM 236 from either the Alpha or LED keypad, or remotely using the Commander II software. This manual provides you with a brief discription of each programming option beginning on page 9. Remote Programming information can be found in the Commander II/Monitor II Operating Manual.

To Start Keypad Programming

Key in the [Installer Combination][*][0][#]. The default installer combination is: 0 1 2 3 4 5. On the LED keypad, the ARM, SERVICE, and AC LED's will flash to indicate programming mode. The Alpha II keypad will display CMD DATA across the top of the LCD display to indicate programming mode.

Programming with the LED Keypad

Programming with the LED keypad is a one-step process. Key in the two-digit address (Command Location) followed by the desired programming values (program data), then press the [#] key to store the data. The LED keypad does not display programmed values. If you are not sure that the correct programming values have been entered, program the Command Location again.

Cystem 200 EED Reypud Edyout				
1	2	3	*	
4	5	6	0	
7	8	9 PANIC	#	

System 236 LED Keynad Lavout

NOTE: To program Command Location A0 with an LED keypad, remember to enter the Command Location, followed by the program data, then press the [#] key.

Warning: If you enter a Command Location and then press the [#] key without entering any data, the keypad will beep 5 times, indicating an error. To correct this problem, simply re-enter the Command Location and Data, then press the [#] key.

Programming with the Alpha Plus Keypad

Entering program data with an Alpha Plus keypad is a two-step process. First, key in the two-digit address (Command Location) to be programmed and press the [#] key. The Alpha keypad displays the Command Location and the data previously stored. Enter the new data you wish to store and press the [#] key to write the data. You can also scroll through the Command Locations in numerical order by alternately pressing and releasing the [#] key.

NOTE: Command Location A0 must be addressed directly. When programming this Command Location with an Alpha II keypad, the previously stored data is not displayed. To program this location, enter the Command Location followed by the [#] key. Then enter the data to be stored and again press the [#] key.

Programming Hexadecimal Numbers

The Alpha keypad may be used to program the control panel. The cursor is moved to the right using the Emergency (E) key and to the left using the Police (P) key. The Fire (F) key enters a blank space and moves the cursor one position to the right.

Data is programmed into the panel using the hexadecimal number system, which consists of the digits 0-9 and the letters A-F. The digits 0-9 are entered directly from the keypad. The chart below shows how to enter the hexadecimal digits A through F.

PROGRAMMING CONVERSIONS		
Hexadecimal Value	Key Strokes	
А	*0	
В	*1	
С	*2	
D	*3	
E	*4	
F	*5	

The same procedure is used with both the LED and the Alpha keypads.

End of Programming Segment

The last two Command Locations are CL 25 and CL A0. When you press the [#] key at these locations, the program will advance to CL 26 or CL A1. These locations are not used in the SYSTEM 236. If you enter CL 26 or CL A1, either press [*][#] to exit programming, or press the Command Location followed by the [#] key for the desired programming location.

To Exit Panel Programming

When you have finished programming, press [*][#]. The panel will also exit the programming mode if you do not press any key within a five minute period.

Programming the ALPHA Plus Keypad

You must have the Alpha Plus keypad wired to the SYSTEM 236. Apply power to the panel. You can only program when the panel is disarmed.

NOTE: Programming the Keypad is not the same as Keypad Programming.

The Alpha Plus Keypad

You can program Alpha Plus keypads with labels for each of the 6 zones and special messages. **Zone labels** display during the walktest and when the [#] key is pressed during alarm memory or faults. The **Service Message** is displayed during AC failure, fuse failure, communication failure, low battery, or Watchdog reset. The **Dealer Message** displays whenever the system is disarmed.

The messages can be programmed directly from the Alpha Plus keypad or remotely using the Commander II/Monitor II software package. For detailed information about remote programming, refer to the Commander II/Monitor II Operating Manual (P/N 5-051-221-00).

Keypad Message Programming

The Alpha keypad programming template is used to allow the installer to program messages and zone descriptions into the Alpha keypads. The template shown on the next page should be used when programming the keypad.

To activate the keypad programming mode, enter the [Installer's Code] [*] [0] [1] [#]. Information may be entered into the keypad in the form of letters (upper and lower case), numbers (0 - 9), and 22 special symbols. All characters are displayed in the order listed above, i.e. upper and lower case letters, numbers, and special symbols. The [Space] character precedes the letter A.

To enter a Message or Label, use the [2] key to scroll through the characters until you reach the desired character. If you scroll past the desired character, the [8] key may be used to scroll backwards. When the desired character is displayed, press the [6] key to move the cursor to the next character position. The [4] key moves the cursor to the left. When all characters have been entered, press the [#] key to write the message and move to the next message position. Use the [0] key to move backward through the messages.

The Alpha and Alpha Plus Templates, used for programming keypad messages, are shown on the next page.

The Scrolling order of the Alpha Plus messages is:

- SERVICE MESSAGE
- DEALER MESSAGE
- SOFT ZONE IDENTIFIER (C)
- HARDWIRED LOOP IDENTIFIERS
- KEYPAD ADDRESS

For example, to change the Keypad Address: Enter keypad programming, as described previously, then press [*] [BYPASS]. This will step backwards one step to Keypad Address. Enter the [New Address] followed by the [#] key.)

ALPHA II Programming Template



Both the Alpha and the Alpha Plus use the same procedure to program messages.

ALPHA PLUS Programming Template PUSH AND HOLD ARROWS FOR FAST SCROLL 1 3 2 CHARACTER † 4 5 6 CURSOR CURSOR MESSAGES • 7 9 8 CHARACTER + 0 \bigcirc MESSAGES ENTER

NOTE: If you do not press any key for 5 minutes, the keypad will automatically exit the programming mode.

To Exit Alpha Keypad Programming

When you have finished programming, press [*] [#]. The keypad will also exit the programming mode if you do not press any key within a five minute period.

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CL 00 - 07

SYSTEM 236 Installation Manual



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CL 08 and 09

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Default Values	→ 0 0 1 0 0 1
	0 8 #
	(1) (2) (3) (4) (5) (6)
Digit Position (1): Disable Loop LEDs	
0 = No 1 = Yes: shuts zone LEDs off after 5 minutes	
Digit Position (2): Faulted Arming Type	
0 = Goof-proof: zones must be normal or shunted to arm 1 = Force Arm: faulted zones will be shunted at end of Exit Delay	
Digit Position (3): Default Installer Combination	
0 = No; this enables the Pirate-Guard™feature for added security 1 = Yes; combination reverts to factory value on power loss	
Digit Position (4): Daily Battery Test Enable	
) = No1 = Yes: tests battery under load every 24 hours	
Digit Position (5): Combination Command	
$\vartheta=No$ $1=$ Yes; requires combination for Bypass, Instant Arm, keypad-activated RPS, and T	est (central station and bell)
1 = 60 Hz	
*Pirate Guard is a	a trademark of C&K Systems, Inc.
*Pirate Guard is a	a trademark of C&K Systems, Inc.
*Pirate Guard is a Command Location 09: Telco Control Options Default Values	a trademark of C&K Systems, Inc.
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*Pirate Guard is a Command Location 09: Telco Control Options Default Values Digit Position (1): Local System Only 0 = No	a trademark of C&K Systems, Inc. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
*Pirate Guard is a Command Location 09: Telco Control Options Default Values Digit Position (1): Local System Only 0 = No 1 = Yes: disables all communications except RPS	a trademark of C&K Systems, Inc. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Pirate Guard is a Command Location 09: Telco Control Options Default Values	a trademark of C&K Systems, Inc.
Pirate Guard is a Command Location 09: Telco Control Options Default Values Digit Position (1): Local System Only 0 = No 1 = Yes: disables all communications except RPS Digit Position (2): Dialing Attempts 0 = 4 attempts 1 = 8 attempts	a trademark of C&K Systems, Inc.
Pirate Guard is a Command Location 09: Telco Control Options Default Values Default Values 0 = No 1 = Yes: disables all communications except RPS Digit Position (2): Dialing Attempts 0 = 4 attempts 1 = 8 attempts 2 = 14 attempts Command Communications Communicatio	a trademark of C&K Systems, Inc.
Pirate Guard is a Command Location 09: Telco Control Options Default Values	a trademark of C&K Systems, Inc.
Pirate Guard is a Command Location 09: Telco Control Options Default Values Defa	a trademark of C&K Systems, Inc.
Pirate Guard is a Command Location 09: Telco Control Options Default Values Default Values	a trademark of C&K Systems, Inc.
Pirate Guard is a Command Location 09: Telco Control Options Default Values Default Values	a trademark of C&K Systems, Inc.
*Pirate Guard is a Command Location 09: Telco Control Options Default Values Default Values Default Values 0 = No 1 = Yes: disables all communications except RPS Digit Position (2): Dialing Attempts 0 = 4 attempts 2 = 14 attempts 2 = 14 attempts Digit Position (3): RPS Enable 0 = No 1 = Yes: allows remote programming to start from off-premise location Digit Position (4): Enable Keypad RPS 0 = No 1 = Yes: allows remote programming to start from on-site keypad command Digit Position (5): Phone Ring Type 0 = Single ring; uniformly timed rings with long pauses between rings 1 = Double ring; rings twice quickly followed by a long pause then rings twice again	a trademark of C&K Systems, Inc.
*Pirate Guard is a Command Location 09: Telco Control Options Default Values Default Values Digit Position (1): Local System Only 0 = No 1 = Yes: disables all communications except RPS Digit Position (2): Dialing Attempts 0 = 4 attempts 0 = 4 attempts 2 = 14 attempts Digit Position (3): RPS Enable 0 = No 1 = Yes: allows remote programming to start from off-premise location Digit Position (4): Enable Keypad RPS 0 = No 1 = Yes: allows remote programming to start from on-site keypad command Digit Position (5): Phone Ring Type 0 = Single ring; uniformly timed rings with long pauses between rings 1 = Double ring; rings twice quickly followed by a long pause then rings twice again Digit Position (6): Dial Type	a trademark of C&K Systems, Inc.

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CL 0A and 0B

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CL 0C - 0E



CL 0F - 11



CL 12 - 14



CL 15 and 16

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CL 17 and 18

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Default Values	→ 0 0 0 0
	1 7 #
	(1) (2) (3) (4)
Digit Position (1): Unit Status Report Code	
This is a global command for CL 17 and CL 18.	
If Position (1) is programmed with a "0", all Status Reports in CL 17 and CL 1 (5) Position (1) is programmed with an unplue other than 0, all Status Posette in Cl	8 will be disabled.
been enabled (not programmed with 0) will send reports. Status Reporting Code digit is the contents of CL 17 (1) and the second digit is the respective Report Code	es will be a 2-digit code. The first de programmed into the panel.
Digit Position (2): Watchdog Reset Report Code	
0 = No 1 - F = Yes: this report code sent after each Watchdog reset	
Digit Position (3): Failed To Communicate Report Code	
0 = No 1 - F = Yes: this report code sent after each failure to communicate	
Digit Position (4): Completed Programming Report Code ———	
0 = No	
Default Values	rting Codes - #2 →
Default Values	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Default Values	rting Codes - #2 \rightarrow 0 0 0 0 0 0 1 8 4 4 4 6 4 7 7 7 8 7 1 8 7 1 1 1 1 1 1 1 1 1 1 1 1
Digit Position (1): Bell Fuse Fail Report Code	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Digit Position (1): Bell Fuse Fail Report Code 0 = No 1 - F = Yes: this report code sent at Bell Fuse failure	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Digit Position (1): Bell Fuse Fail Report Code 0 = No 1 - F = Yes: this report code sent at Bell Fuse failure Digit Position (2): Bell Fuse Restore Report Code	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Digit Position (1): Bell Fuse Fail Report Code 0 = No 1 - F = Yes: this report code sent at Bell Fuse failure Digit Position (2): Bell Fuse Restore Report Code 0 = No 1 - F = Yes: this report code sent at Bell Fuse restoral	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Digit Position (1): Bell Fuse Fail Report Code 0 = No 1 - F = Yes: this report code sent at Bell Fuse failure Digit Position (2): Bell Fuse Restore Report Code 0 = No 1 - F = Yes: this report code sent at Bell Fuse restoral Digit Position (3): AC Fail Report Code	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
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CL 19 and 1A

SYSTEM 236 Installation Manual



CL 1B and 1C



CL 1D - 23

SYSTEM 236 Installation Manual



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CL 24 - 25 and A0



TESTING

Once the installation is complete, connect AC and DC power. Complete programming, if required. **Test all panel operations**.

TO THE INSTALLER

Regular maintenance and inspection (at least monthly) by the installer, and frequent testing by the user, are vital to the continuous and satisfying operation of any alarm system.

The installer should assume the responsibility for developing and offering a regular maintenance program to the user, as well as acquainting the user with the proper operation and limitations of the alarm system and its component parts.

Recommendations must include a specific program of regular testing (at least weekly) to insure that the system is operating properly.

TELEPHONE LINE PROBLEMS

In the event of telephone line problems, disconnect the SYSTEM 236 by removing the modular connector plug from the Telco interface jack. **Do not disconnect the connection inside the SYSTEM 236 cabinet**. Doing so will prevent the premise phones from operating. If the phone works correctly after the control panel has been disconnected from the phone line, the control panel has a problem and should be returned for repair.

If the phone does not work correctly after the control panel has been disconnected from the phone line, notify the telephone company and request prompt repair. The user may not under any circumstances, in or out of warranty, attempt any service or repairs on the SYSTEM 236. The control panel must be returned to C&K SYSTEMS or an authorized service agency for repairs.

WATCHDOG INDICATOR



The SYSTEM 236 is protected by an advanced circuit that constantly monitors the microprocessor.

As long as the panel is powered and operating normally, the DS1 LED on the circuit board will flash. If the Watchdog circuit detects a failure, it will attempt to reset the panel and make the DS1 LED light steadily.

steadily. If the panel resumes normal operations after a Watchdog reset, clear the DS1 LED by resetting the panel or pressing [*] [1] [#], then test the system. No further action is required.

If the panel does not operate properly after a Watchdog reset, call the C&K Technical Support Hotline at 1-800-227-8065.

FCC NOTICE

WARNING: This device is intended to be installed by a professional alarm installer.

The user shall be cautioned that changes or modifications not expressly approved by C&K SYSTEMS could void the user's authority to operate the equipment.

This equipment complies with FCC Rules, Part 68.

On the outside of this equipment is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. If requested, provide this information to your telephone company.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your number is called. In most, but not all areas, the sum of the REN's devices should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should call your local telephone company to determine the maximum REN for your calling area.

Should you experience trouble with the telephone lines, disconnect the equipment from the line to determine the source of the trouble. If it is determined that the equipment is malfunctioning, discontinue its use until the malfunction has been corrected. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telephone company cause to request the user to disconnect the equipment. Repairs to this equipment should be made by an authorized agent of C&K Systems, Inc. Contact your local alarm installation company for service.

Should this equipment cause harm to the telephone network, the telephone company may temporarily discontinue your service. If possible, they will provide you with advance notice. Otherwise they will notify you as soon as possible. The telephone company will also advise you of changes in its facilities, equipment, operations or procedures which could affect the operation of your equipment, allowing you the opportunity to maintain uninterrupted service. You will also be advised of your right to file a complaint with the FCC.

This equipment must not be used on party lines or coin operated phone lines.

FCC Part 15 Notice

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the radio/television antenna;
- Connect the AC transformer to a different outlet so that the equipment and radio/television are on different branch circuits;
- Relocate the equipment with respect to the radio/television;
- Consult the dealer or an experienced radio/television technician for help.

FCC Registration Number: C2DCHN-75290-AL-E Ringer Equivalence: 0.3B

CANADIAN EMISSION REQUIREMENTS

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toute les exigences du Règlement sur le matériel brouilleur du Canada.

Keypad Operation Command Summary

The majority of the keypad commands apply equally to the LED and Alpha II keypads. Some keypad commands, however, apply to the LCD keypad only.

The following Keypad Commands apply to both the LED and Alpha II keypads:

Function	Comments	Keystroke Sequence
Arm/Disarm	Delays active	[Combination] [#]
Bypass Zone (n) Chime On/Off	[n] is zone # 1 - 6; Combo may be required	[Combination] [*] [2] [n] [#] [*] [5] [#]
Change Combo	Must be done from Master Combination (User #1)	[Master Combo] [*] [0] [#] [User No.] [#] [New Combo][#][New Combo][#]
Clear Alarm Memory		[*] [1] [#]
Entry/Exit Pre-Alarm	Toggle Pre-Alarm tones on and off	[*] [5] [2] [#]
Error Tones	Toggle Error Tones on and off	[*] [5] [4] [#]
Exit Programming		[*] [#]
Home Arm	All interior zones are shunted simultaneously;	[Combination] [*] [4] [#]
	Exterior zones armed; Combo may be requi	red
Instant Arm	Converts all delayed zones to instant; Combo may be required	[Combination] [*] [7] [#]
Instant Home Arm	Arms exterior zones, shunts interior zones, Entry delays converted to Instant; Combo may be required	[Combination] [*] [4] [7] [#] (or) [Combination] [*] [7] [4] [#]
Keypad Activated RPS	If enabled, CL 09(4); Combo may be required	[Combination] [*] [0] [2] [#]
Keypad Tone Disable	Toggle Entry/Exit Pre-Alarm and Confirmation/ Error tones on and off	[*] [5] [1] [#]
Panic Alarm	Keypad activated	[9] (Hold for 3 seconds)
Reset Aux Power	If resettable devices are connected to Terminals labelled AUX (+) and C	[*] [6] [2] [#]
Reset Panel	Panel must be disarmed	[Master Combination] [*] [6] [8] [#]
Test - Battery	Use after correcting Low Battery problem	[*] [6] [4] [#]
Test - Bells	Combo may be required	[Combination] [*] [6] [3] [#]
Test - Central Station	Combo may be required	[Combination] [*] [6] [1] [#]
Test - Local Walk Test	Combo may be required	[Combination] [*] [6] [0] [#]

NOTE: For additional information about Combination Command requirements, see page 26 and CL 08 (5).

The following Keypad Commands apply to the Alpha II keypad only:

Function	Comments	Keystroke Sequence
Arm Tones Toggle On/Off Audible Feedback Toggle Backlight Toggle On/Off		[*] [5] [4] [#] [*] [5] [1] [#] [*] [8] [#]
Display Keypad Model & Revision Number		[*] [9] [#]
Chime Toggle Pre-warn Toggle On/Off		[*] [5] [3] [#] [*] [5] [2] [#]

The following Keypad Commands are Installer Only Commands:

Function	Comments	Keystroke S
Alpha Keypad Programming	Start Programming the Keypad	[Installer Con
Alpha Keypad Test	Keypad must be disconnected from panel	[*] [6] [7] [#
Kill/Revive Panel	Panel must be disarmed	[Installer Con
Panel Programming	Start Programming the Panel	[Installer Con

Sequence

nbination] [*] [0] [1] [#] nbination] [*] [6] [9] [#] nbination] [*] [0] [#]

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Survey of Most Common Questions								
The following is	a summary c	of the questions mos	st frequently aske	d of our Technical a	Support Department.			
QUESTION ANSWER:	QUESTION: How do I program the panel with the LED keypad? ANSWER: To program with the LED keypad, enter the Command Location to be programmed, the Data to be programmed and the press the [#] key. (See also page 6.)							
F	For Example: To program User #2 with a PIN of 4-5-3-5, enter the following keystrokes:							
	CL Data to Store Write Data [0][2] [4] [5] [3] [5] [#]							
Question: Answer: tion]	How do I ac To begin Al	ccess Alpha Keypad pha Keypad Progra	Programming to mming (you cann	enter Zone Labels? not program the LEI	D keypad), enter [Installer Combina-			
	[*] [0] [1] [#]. Then scroll to t	he desired messa	ige location. (See a	llso page 7.)			
Question:	How do I int	terpret a Trouble on	the LED keypad?	How do I clear a Ti	rouble on the LED keypad?			
Answer:	A number o	f conditions may ca	use the Service L	ED to light. See the	e chart below for additional			
	SERVICE	D Power LED	Zone LED's	Cause				
	Flash Slo	w On	Off Fleeb Clev	Watchdog				
	On	On	Flash Slow					
	On	Elash Slow	Off	Low Battery				
	Flash Fas	t On	Off	System Trouble	e (Comm Fail)			
	On	On	Off	System Trouble	e (Bell Fuse Fail)			
Question: Answer: tional	Question:How do I enter hexidecimal numbers when using keypad programming?Answer: tionalHexidecimal values are entered through the use of the [*] key and one of the digits [0] - [5]. For addi- help with entering hexidecimal numbers, refer to pages 6 - 7. The hexidecimal conversion chart is also found at various locations throughout the programming section of the manual.							
Question: Answer:	1: What is an "Interface error 1" and how do I correct the error? This error is caused by a problem with the Data line (Green wire) between the panel and the keypad. Check the connection to ensure that the wire is not pinched or loose. Also try disconnecting all keypads from the panel (one at a time), resetting the panel after each keypad is removed. Remember, to reset the panel press: [Master Code] [*] [6] [8] [#].							
Question: Answer:	Question:How do I reset Alarm Memory?Answer:To Clear Alarm Memory, press [*] [1] [#].							
Question: Answer:	Question:How do I address an Alpha Keypad for the first time?Answer:If you have an Alpha keypad that has never been addressed, when power is initially applied, the display will read KEYPAD ADDRESS?. To enter the address, simply press a number between 0 and 7. Remove panel power for 3 seconds and then re-apply power to reset the system. For additional information about Keypad addressing, see page 5.							
	NOTE:	If operating at or i power for up to 30	near the limit of A D seconds in orde	UX Power and Keyp er for the system to	ad Power, you may need to remove reset properly.			
Question: Answer:	Question:Why do my loops fail to respond after changing the programming?Answer:In order for the panel to recognize the programming changes for the loops, either the loops have to be tripped and restored or the panel must be reset ([Master Combination] [*] [6] [8] [#]).							

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Question: Answer:	How do I interpret the Unit Status Reports? Can the codes be changed? Status Reporting is divided between CL 17 and CL 18. Each Reporting Code of the Unit Status Report is a two-digit code. The first digit is the data programmed into CL 17 Digit Position (1) and may be any value from 0 - F. The second digit is the data programmed into the respective Status Report Code. Please note that programming a 0 into CL 17 (1) will disable all Unit Status Reports in CL 17 and CL 18. Additional information about Unit Status Reporting Codes can be found on page 16 in the programming section.
Question:	How do I enter Receiver and RPS Phone Numbers? Why do I have to enter the E at the end of the number?
Answer:	The System 236 is designed to handle phone numbers up to 18 digits long, but the firmware can only handle 6 digits per Command Location. This means that 3 Command Locations are required to store a phone number. With variations in number length and special characters which may need to be included, the software needs some method of determining the end of the number. The E (entered by pressing

[*][4])

tells the software that it has reached the end of the phone number and to ignore any additional digits.

For Example: To program the panel for Receiver #1 with a phone number of 555-1212 and disable

(Comn	nand	Locat	ion 00)		Comr	nand	Locat	ion 0[כ		Comr	nand	Locat	ion OE	5	
С	7	0	5	5	5	1	2	1	2	E	0	0	0	0	0	0	0	
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)	

NOTE: Entering [*] [2] in CL 0C (1) will display the value "C" and entering [*] [4] in CL 0D (5) will display the value "E".

Question: How can I correct the problem of two Alpha keypads with the same address? When two keypads have been given the same address, a conflict occurs on the data bus since two Answer: keypads are trying to communicate at the same time. The only way to correct the problem is to disconnect both keypads and then re-address one of them, making sure that the address is not used by any other keypad. To re-address the keypad, enter Alpha Keypad Programming ([Installer Combination] [*] [0] [1] [#]) and scroll backward one step ([*] [BYPASS]). Then enter the new address. Don't forget to reset the panel ([Master Code] [*] [6] [8]]#]) after changing the address, so the panel knows how to properly address the keypad. For additional information about keypad addressing, see page 5. Question: Why can't my panel communicate with the Central Station? Answer: There are several reasons for the panel not communicating. The first place to look is CL 09 (1). This is the Telco Control, if Digit Position (1) is programmed with a 1, all communication except RPS is disabled. If 09 (1) is programmed with a 0, check to ensure that all of the following parameters are properly set: Account Number 1 is programmed into CL 0B Receiver #1 Phone Number is correctly programmed into CL 0C - 0E Receiver Format and Message Format agree CL 0A Telco Control Options (CL 09) are correctly programmed The RJ-31X jack is correctly wired (pins 4 & 5 are not switched with 1 & 8)

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Recommendations for Reducing False Alarms The recommendations contained in this section are designed to assist you in reducing false alarms. The first column contains the Command Locations and Digit Positions in parentheses (). The second column is the recommended program option followed by a brief explanation.

Program Option	<u>CL</u>	Program Function	<u>Comments</u>
Arming/Combination Options	08 (5)	Combination Command	This feature is enabled to prevent unauthorized users from activating certain keypad functions. When activated, this com- mand will require a valid User Combination to perform such functions as Bypassing a Zone, Group Bypassing, Keypad Activated RPS, Central Station and Bell Testing, and Instant Arming. For more help with commands requiring User Combina- tions, see page 22(Command Summary).
Loop Control	1D - 22 (1) Loop Response Time	This option determines the response time of the loop itself. It acts as a buffer on the loop to minimize the possibility of fast acting sensors, such as swingers or window foil, producing false alarms.
Loop Control	1D - 22 (3) Loop Restore Type	This option is used in conjunction with CL 15 Digit Posi- tion (5), Restore Reporting Code, and CL 15 (1), Event Report Receiver Select. The panel can be programmed to send a Restoral Report only when the loop is normal and the system is disarmed. With this arrangement, any loop which is triggered multiple times while armed will only send one alarm report until the system is disarmed. This prevents the system from tieing up the phone line with continuous alarm and restoral reports.
Loop Control	1D - 22 (·	4) Loop Arming Type	There may be occassion where it is desirable to program all doors and interior points as delayed. Or you may need to program interior zones to be delayed only during the Entry/Exit Delay Time. This Command Location allows a variety of Arming Types to help minimize false alarms.
Event Reporting	15 (1 & 3) Cancel Report Code/Cancel Report Receiver Select	This feature should always be enabled on reporting systems, especially if the system does not send Opening and Closing Reports. A Cancel Report is sent to the monitoring station in the event that an Authorized User clears the alarm while the bell is still active. The Cancel Report Code (Digit Position 3) is actually a two-digit code with the first digit being programmed by the installer and the second digit being the User ID # when the report is sent. Digit Position (1) determines which receiver gets the Cancel Report.
Loop Switches	25 (1 - 6)	Delay Before Dial	This option programs the loops to have a delay after they are triggered to allow the User time to shut down the system in the event of an accidental triggering of the zone. The amount of time is determined by the value programmed into CL 1B Digit Position (4). The time delay may be between 10 and 60 seconds, in 10 second intervals.

THE LIMITATIONS OF YOUR ALARM SYSTEM

While the SYSTEM 236 is an advanced design security system, it does not offer guaranteed protection against burglary, fire, or other losses. Any alarm system, whether commercial or residential, is subject to compromise or failure-to-warn for a variety of reasons. These include:

- Intruders may gain access through unprotected openings or have the technical sophistication to bypass an alarm sensor or disconnect an alarm warning device.
- Intrusion detectors, smoke detectors, and many sensing devices will not operate without power. Devices powered by AC will not work if their AC power supply is off for any reason and their backup batteries are missing, dead, or improperly installed.
- Alarm warning devices such as sirens, bells, and horns may not alert people or wake up sleepers if they are located on the other side of closed or partly closed doors. If warning devices are on a different level of the residence from bedrooms, there are less likely to waken or alert people inside the bedrooms.
- Telephone lines needed to transmit alarm signals from a premise to a central monitoring station may be out of service or temporarily out of service. Telephone lines are subject to compromise by sophisticated methods of attack.
- Smoke detectors used in conjunction with the alarm system may not sense fires that start where smoke cannot reach the detectors, such as chimneys, walls, or roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level of the residence or building. A second-floor detector, for example, may not sense a first-floor or basement fire. Finally, smoke detectors have sensing limitations. No smoke detector can sense every kind of fire every time. In general, detectors may not always warn you about fires caused by carelessness and safety hazards, like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electronic circuits, children playing with matches, arson, etc.
- The most common cause of an alarm system not functioning properly when an intrusion or fire occurs is inadequate maintenance. Your alarm system should be tested weekly to make sure all sensors are operating properly. The SYSTEM 236 and all keypads should also be tested.
- Installing an alarm system may make you eligible for lower insurance rates. However, an alarm system is not a substitute for insurance. Homeowners, property owners, and renters should continue to insure their lives and property.

5-051-191-00, Rev G

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236 Programming Worksheet							
Client: SYSTEM 236 Phone Number:							
Address:							
Installer: [Date:						
VOLTS AC volts (AC terms):	CONTROL LOCATION:	KEYPADS—AddressLocation					
AUX POWER VOLTS (terms AUX + and C): BATTERY VOLTS Under load - AC off:	BREAKER # AND LOCATION						
CURRENT Keypads AUX POWER +		4 5 6 7					
(400 mA allowed): $(400 \text{ mA allowed}): = \$	Installer Combination						
0 1 2 3 4 Name:	#1 - Master 0 2	0 0 0 User #2 Name:					
0 0 0 0 0 0 0 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	¥3 0 4 0	0 0 0 User #4 Name:					
0 0 0 0 0 5 User # Name:	⁰ <u></u> 06	0 0 0 User #6 Name:					
0 7 4	User Arming Type 0 8	0 1 0 0 1 Panel Control Options					
	Telco Control Options	Communications					

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