

## Section 9

### Keypad Operations

The following is a complete list of the LED and ALPHA keypad operations and displays.

**All keypad operations are listed in numerical key operation order**

<i>Key Entry</i>	<i>Operation</i>
[FIRE], hold for 3 seconds	<b>Fire Alarm - Keypad Activated.</b> makes the FIRE soft zone activate an alarm, if the soft zones are enabled and the FIRE soft zone is programmed
[EMERGENCY], hold for 3 seconds	<b>Emergency Alarm - Keypad Activated.</b> makes the EMERGENCY soft zone activate an alarm, if the soft zones are enabled and the EMERGENCY soft zone is programmed
[POLICE], hold for 3 seconds	<b>Police/Panic Alarm - Keypad Activated.</b> makes the POLICE soft zone activate an alarm, if the soft zones are enabled and the POLICE soft zone is programmed
[User Combination] [ENTER]	<b>Arm or Disarm with Delays.</b> This is the normal arming and disarming operation.
[Combination If Required] [BYPASS] [Zone # from 1 - 8] [ENTER]	<b>Bypass Zone.</b> This allows the user to shunt or unshunt specific zones. If multiple zones are to be shunted, use the following sequence: [Combination If Required] [BYPASS] [Zone # from 1 - 8] [BYPASS]... [ENTER] If multiple zones are to be shunted, and they are programmed for Group Shunting, the Group Shunting command can also be used.
[Installer Combination] [SHIFT] [0] [ENTER]	<b>Panel Programming.</b> Use this command to begin programming the panel.
[Master Combination] [SHIFT] [0] [ENTER]	<b>Combination Change.</b> Use this command to change a user combination. After getting into the Combination Command mode by entering the combination on the left, enter the new combination. The new combination must always start with the fixed first digit of the old combination. After entering the last


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<b>Key Entry</b>	<b>Operation</b>
	digit of the new combination, press the [ENTER] key. Enter the new combination again and press the [ENTER] key. For additional security, the numbers will not display if programming with the ALPHA keypad. The Master Combination cannot change a user's arming type.
[Installer Combination] [SHIFT] [0] [1] [ENTER]	<b>ALPHA Keypad Programming.</b> Use this command to program a specific ALPHA keypad.
[Combination If Required] [SHIFT] [0] [2] [ENTER]	<b>Keypad Activated RPS.</b> This command makes the dialer call the remote programming system to initiate remote programming. A phone number must be programmed in the RPS number, CL 14 - 16.
[SHIFT] [1] [ENTER]	<b>Clear Alarm Memory.</b> This command clears all zones in alarm memory, also the watchdog indicator.
[Combination If Required] [SHIFT] [4] [ENTER]	<b>Group Bypass.</b> This command makes all loops programmed for Group Bypass shunt at the same time. This is not an arming or disarming command.
[Combination If Required] [SHIFT] [5] [ENTER]	<b>Chime On or Off.</b> This command turns the chimes on or off for all loops programmed for Chime Enable. When any of these loops are faulted, the keypads sound for 2 seconds. The chime will not sound again until the faulted loops are restored, and another fault occurs.
[SHIFT] [5] [1] [ENTER]	<b>Audible Feedback Toggle.</b> This command turns the audible feedback on or off. It only applies to ALPHA keypads, and only the ALPHA keypad where the command is entered.
[SHIFT] [5] [2] [ENTER]	<b>Pre-warn Toggle On or Off.</b> This command turns the Entry/Exit pre-warn tones on or off. It only applies to ALPHA keypads, and only the ALPHA keypad where the command is entered.

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[SHIFT] [5] [3] [ENTER]	<b>Chime Toggle.</b> This command turns the door chime tone on or off. It only applies to ALPHA keypads, and only the ALPHA keypad where the command is entered.
[SHIFT] [5] [4] [ENTER]	<b>Arming Tones Toggle On or Off.</b> This command turns arming and error warning tones on or off. It only applies to ALPHA keypads, and only the ALPHA keypad where the command is entered.
[SHIFT] [6] [0] [ENTER]	<b>Local Walk-Test.</b> This command puts the panel in local-only mode. No reports will be transmitted. The keypad sounders will chime when any zone is faulted. The bells will not sound. Testing stops as soon as any key is pressed. At the end of the test, the panel and keypads resume normal operation.  During the test, the top line of the ALPHA display will read <b>WALK TEST</b> . The second line of the display will show the faulted zone. You can only test specific zones by shunting zones not to be tested <b>before</b> entering the Keypad Test command. Chimes must be enabled globally, [SHIFT] [5] [ENTER], as well as locally on the ALPHA keypad, [SHIFT] [5] [3] [ENTER].
 Alarm detection is disabled during testing. It is important to complete testing and resume normal operations as soon as possible.	
[Combination If Required] [SHIFT] [6] [1] [ENTER]	<b>Central Station Test.</b> This command makes the panel transmit the Test Report code. When the test is successful, the audibles and keypads will sound as a 3-second ring-back. All other panel functions operate normally. The panel automatically resumes normal operation at the end of the test.  The ALPHA keypad displays <b>TEST REPORTING</b> on the top line. When the test is complete, the second line displays either <b>TEST PASSED</b> or <b>TEST FAILED</b> . The display remains on for 5 seconds.  The LED keypad displays normal operations. Both the LED and ALPHA keypads chime twice if the test was successful, and five times if the test failed.

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<b>Key Entry</b>	<b>Operation</b>
[SHIFT] [6] [2] [ENTER]	<b>Reset Auxillary Power.</b> This command interrupts auxiliary power on terminal 5 and terminal 22 (powered by loop 8) for 5 seconds. During this time, all loops suppress troubles and alarms. The ALPHA and LED keypads show normal. The panel resumes normal operation at the end of the reset.
[Combination If Required] [SHIFT] [6] [3] [ENTER]	<b>Bell Test.</b> This command activates the sounders for 3 seconds.
[SHIFT] [6] [4] [ENTER]	<b>Dynamic Battery Test.</b> This command dynamically tests the battery by interrupting AC power for 2 minutes. CL 2F (2), Dynamic Battery Test, does not have to be enabled. If a low battery is detected, the panel reports it to the central station, if Reporting and Unit Status are enabled. The panel resumes normal operation at the end of the test.  The ALPHA keypad displays <b>BATTERY TEST</b> during the test. At the end of the test, it displays either <b>TEST PASSED</b> or <b>TEST FAILED</b> . The display remains on for 5 seconds. If the battery is low, the service condition will be displayed, and the green AC light on each keypad will flash slowly.  Both the LED and ALPHA keypads chime twice if the battery is okay, and five times if the battery is low.
[SHIFT] [6] [7] [ENTER]	<b>ALPHA Keypad Test.</b> This command is used to initiate a factory test of the ALPHA keypad, in conjunction with a jumper. The ALPHA Keypad Test is described in Section 8.
[Installer Combination] [SHIFT] [6] [8] [ENTER]	<b>Reset Panel.</b> This command warm-starts the panel and all ALPHA keypads. Pending reports will be cleared. The countdown timer for the next Test Report will be cleared, making the next test report at the end of the Set Countdown Timer's programmed time. Restarting the panel does not affect arming status, shunted zones, test report interval, or any programming values. The LED keypads show normal. The ALPHA keypads display <b>SYSTEM RESET</b> for 5 seconds, then return to normal.

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### Key Entry

### Operation

[Installer Combination]  
 [SHIFT]  
 [6]  
 [9]  
 [ENTER]

**Kill/Revive Panel.**  
 This is a toggle command. Enter it once, and you will enable Panel Kill. The panel will not actually "die" until the next time it's disarmed. Once the panel is dead, the ALPHA keypad will only display the programmable Service Message on the second line of the display. The armed LED will go out, and the power LED will operate normally. The LED keypad will only display the green power LED. The keypad sounders will be disabled.

When the panel is killed, all functions stop except remote programming (if enabled) and the battery charger.

To revive (un-kill) the panel, enter [Installer Combination] [SHIFT] [6] [9].



While the Kill command can be a very powerful tool, it also increases your liabilities. The SYSTEM 238 has been designed to reduce your liabilities. After you activate Kill, the panel will not go into a sleep mode until it's disarmed. This prevents you from killing a customer's panel while it's armed.



Before killing a panel, make sure you've taken all the legal steps required in informing the client. C&K suggests that you establish the procedures and form letters with the aid of your company's lawyer.

[Combination If Required]  
 [SHIFT]  
 [7]  
 [ENTER]

**Arms with Delays Converted to Instant.**  
 This is an arm only command. Entry and Exit Delays are converted to instant. If the subscriber will occupy a protected area, interior zones must be shunted before arming.

[SHIFT]  
 [8]  
 [ENTER]

**Backlight Toggle On or Off.**  
 This command turns the keypad backlighting on or off. It only applies to ALPHA keypads, and only to the ALPHA keypad where the command is entered.

[SHIFT]  
 [9]  
 [ENTER]

**Display Keypad Model and Revision Number.**  
 This command applies only to ALPHA keypads, and only to the ALPHA keypad where the command is entered.

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#### Keypad operations available to both LED and ALPHA keypads - alphabetical listing

<i>Operation</i>	<i>Key Entry</i>
<b>Arm or Disarm with Delays</b>	[Combination] [ENTER]
<b>Arm - Delays Converted to Instant</b>	[Combination If Required] [SHIFT] [7] [ENTER]
<b>Bypass Zone (n)</b>	[Combination If Required] [BYPASS] [Zone # from 1 - 8] [ENTER]. Use the [BYPASS] key instead of the [ENTER] key if multiple zones are to be bypassed.
<b>Chime On or Off</b>	[SHIFT] [5] [ENTER]
<b>Change Combinations</b>	[Master Combination] [SHIFT] [0] [ENTER], followed by [New Combination] [ENTER], [New Combination] [ENTER]. When you've finished changing the combinations, exit the programming mode.
<b>Clear Alarm Memory</b>	[SHIFT] [1] [ENTER]
<b>Emergency Alarm - Keypad Activated</b>	Hold [EMERGENCY] key down for 3 seconds
<b>Exit Combination Change Programming</b>	[SHIFT] [ENTER]
<b>Fire Alarm - Keypad Activated</b>	Hold [FIRE] key down for 3 seconds
<b>Group Bypass</b>	[Combination If Required] [SHIFT] [4] [ENTER]
<b>Keypad Activated RPS</b>	[Combination If Required] [SHIFT] [0] [2] [ENTER]
<b>Police/Panic Alarm - Keypad Activated</b>	Hold [POLICE] key down for 3 seconds
<b>Reset Auxillary Power</b>	[SHIFT] [6] [2] [ENTER]
<b>Test - Battery</b>	[SHIFT] [6] [4] [ENTER]
<b>Test - Bells</b>	[Combination If Required] [SHIFT] [6] [3] [ENTER]
<b>Test - Central Station</b>	[Combination If Required] [SHIFT] [6] [1] [ENTER]

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<i>Operation</i>	<i>Key Entry</i>
Test - Local Walk-Test	[Combination If Required] [SHIFT] [6] [0] [ENTER]

#### Keypad operations for ALPHA keypads only - alphabetical listing

<i>Operation</i>	<i>Key Entry</i>
Arm Tones Toggle On or Off	[SHIFT] [5] [4] [ENTER]
Audible Feedback Toggle	[SHIFT] [5] [1] [ENTER]
Backlight Toggle On or Off	[SHIFT] [8] [ENTER]
Chime Toggle	[SHIFT] [5] [4] [ENTER]
Display Keypad Model and Revision Number	[SHIFT] [9] [ENTER]
Pre-warn Toggle On or Off	[SHIFT] [5] [2] [ENTER]

#### Keypad operations for installers only - alphabetical listing

<i>Operation</i>	<i>Key Entry</i>
ALPHA Keypad Programming - Start	[Installer Combination] [SHIFT] [0] [1] [ENTER]
ALPHA Keypad Test	[SHIFT] [6] [7] [ENTER]
Exit Panel or ALPHA Programming	[SHIFT] [ENTER]
Kill/Revive Panel	[Installer Combination] [SHIFT] [6] [9] [ENTER]
Panel Programming - Start	[Installer Combination] [SHIFT] [0] [ENTER]
Reset Panel	[Installer Combination] [SHIFT] [6] [8] [ENTER]

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#### LED keypad lights

	<i>Condition</i>	<i>Meaning</i>
<b>Power LED (green)</b>	on	AC power on
	slow flash	low battery
	off	operating on battery or no power
<b>Arm LED (red)</b>	on	system armed with delays
	slow flash	system armed with delays converted to instant
	off	system disarmed
<b>Ready LED (green)</b>	on	system disarmed and all loops normal
	slow flash	system armed or disarmed with loops shunted, or alarm memory
	off	system armed or disarmed and burglar loops faulted, or loop trouble
<b>Bypass LED (yellow)</b>	on	one or more loops shunted
	off	no loops shunted
<b>Program LED (yellow)</b>	on	system in RPS, keypad, or combination programming mode
	off	system not in programming mode
<b>Trouble LED (yellow)</b>	on	one or more loops in trouble, or system trouble detected
	slow flash	watchdog reset
	off	no loop or system troubles
<b>Zone LEDs (red)</b>	on	loop faulted
	fast flash	alarm memory
	slow flash	loop shunted or in trouble
	off	loop normal



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## ALPHA keypad displays - alphabetical listing

<i>Display</i>	<i>Meaning</i>
<b>AC POWER FAIL</b>	Displays SYSTEM TROUBLE as soon as the AC power fails. Press the [ENTER] key several times to make the Service Message display AC POWER FAIL.
<b>ALARM ZONE</b>	Displays when any zone detects an alarm condition. Press the [ENTER] key several times to display the loops in alarm. This is the same display for Alarm Memory. Press [SHIFT] [1] [ENTER] to clear the Alarm Memory.
<b>ARMED</b>	Displays after the system has been armed, with all loops normal and delays enabled.
<b>ARMED - INSTANT</b>	Displays when the system has been armed with Entry Delays converted to instant, [SHIFT] [7] [ENTER].
<b>AUDIBLE TONE OFF AUDIBLE TONE ON</b>	Displays for 5 seconds after pressing [SHIFT] [5] [1] [ENTER]. Tells whether the audible feedback tone is turned on or off for that keypad.
<b>BACKLIGHT OFF BACKLIGHT ON</b>	Displays for 5 seconds after pressing [SHIFT] [8] [ENTER]. Tells whether the keys and display backlighting are turned on or off for that keypad.
<b>BATTERY TEST</b>	Displays for 2 minutes after pressing [SHIFT] [6] [4] [ENTER]. AC power is interrupted, while the battery is tested under load. If the battery is okay, the display will read TEST-PASSED. If the battery is low or dead, the display will read TEST-FAILED.
<b>BELL FUSE FAIL</b>	Activates SYSTEM TROUBLE as soon as the Bell fuse opens. Press the [ENTER] key several times to make the Service Message display BELL FUSE FAIL.
<b>BYPASSED ZONE</b>	Displays when loops have been bypassed, group bypassed, or force armed. When the [ENTER] key is pressed, bypassed loops will be shown on the second line of the display.
<b>CHIMES OFF CHIMES ON</b>	Displays for 5 seconds after pressing [SHIFT] [5] [ENTER] or [SHIFT] [5] [3] [ENTER]. Turns the chimes on or off for all keypads with chime tones enabled.

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<i>Display</i>	<i>Meaning</i>
<b>CMD - D A T A -</b>	Displays on the top line while in the installer programming mode. The second line displays the Command Location in the left two digits, followed by the programming values for that Command Location.
<b>CONNECTION FAIL</b>	Activates SYSTEM TROUBLE after the programmed number of dialing attempts. Press the [ENTER] key several times to make the Service Message display CONNECTION FAIL.
<b>ENTRY - DISARM NOW</b>	Displays when a delay loop has been faulted during the armed period. The second line of the display shows the relative Entry Delay time remaining.
<b>EXIT NOW</b>	Displays when the system has been armed, during the Exit Delay time. The second line of the display shows the relative Exit Delay time remaining.
<b>FAULTED ZONE</b>	Displays when the loops are not in the normal state. When the [ENTER] key is pressed, the loop label will be shown on the second line of the display.
<b>INTERFACE ERROR</b>	Indicates either a malfunction in the keypad Clock and Data wiring or in the SYSTEM 238 panel communications protocol.
<b>INVALID ENTRY</b>	The user either pressed two keys at the same time or entered an invalid key sequence.
<b>INVALID P.I.N.</b>	The user is entering a Personal Identification Number (combination) not programmed in the SYSTEM 238.
<b>KEYPAD ADDRESS?</b>	ALPHA keypads must be programmed with a keypad address. The address must be different for each keypad. KEYPAD ADDRESS? displays when the system has been reset and detects a keypad without an address. Program in a valid address (see Section 7), then reset the SYSTEM 238. When the panel is reset, it scans for all valid keypad addresses.

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<i>Display</i>	<i>Meaning</i>
<b>LOW BATTERY</b>	Activates SYSTEM TROUBLE after a low battery condition has been detected. Press the [ENTER] key several times to make the Service Message display LOW BATTERY.
<b>ALPHA KEYPAD REVISION X.X</b>	The ALPHA keypad model number and firmware version display when the user enters [SHIFT] [9] [ENTER].
<b>NOT READY TO ARM</b>	Displays while the system is disarmed and burglar loops are faulted. Press the [ENTER] key several times to display faulted loops.
<b>P.I.N. ACCEPTED</b>	Displays for 5 seconds after a combination has been successfully changed using the Master Combination.
<b>P.I.N. REQUIRED</b>	Displays when the user attempts to perform a combination-required operation without using the combination.
<b>PREWARN TONE OFF PREWARN TONE ON</b>	Displays for 5 seconds after entering [SHIFT] [5] [2] [ENTER]. Tells whether entry and exit warning tones will be sounded at that keypad.
<b>PROGRAMMING</b>	Appears on the top line of the display while the panel is in interactive mode, or another keypad is programming the panel.
<b>READY TO ARM</b>	The SYSTEM 238 is in the normal, disarmed state with no loops faulted.
<b>RESET SYSTEM</b>	Displays when the system should be reset either by removing and restoring all power, or by entering [Installer Combination] [SHIFT] [6] [8] [ENTER] from a different keypad.
<b>SYSTEM RESET</b>	Displays for 5 seconds after pressing [Installer Combination] [SHIFT] [6] [8] [ENTER]. This key sequence restarts the SYSTEM 238 microprocessor. No programming changes will occur, but the time of the next Test Report will start counting down to the programmed test interval. All pending reports will be cleared.
<b>SYSTEM TROUBLE</b>	Appears on the top line of the display when the SYSTEM 238 detects AC failure, low battery, fuse failure, communication failure, or watchdog reset. Press the [ENTER] key several times to learn the cause of the SYSTEM TROUBLE.

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<i>Display</i>	<i>Meaning</i>
<b>TEST - FAILED</b>	Displays on the second line after failing to complete a dynamic battery test [SHIFT] [6] [4] [ENTER], or a central station reporting test [SHIFT] [6] [1].
<b>TEST - PASSED</b>	Displays on second line after completing a dynamic battery test or central station reporting test.
<b>TEST REPORTING</b>	Displays on top line when performing the central station reporting test.
<b>TROUBLE ZONE</b>	Displays after detecting an open or foreign ground in a supervised or supervised - latched loop. Press the [ENTER] key several times to display the TROUBLE ZONE message.
<b>WATCHDOG RESET</b>	Activates SYSTEM TROUBLE after detecting a microprocessor failure and attempting to reset the system. Press the [ENTER] key several times to make the Service Message display WATCHDOG RESET.
<b>WALK TEST</b>	Displays on the top line when the system is in the walk-test mode.