



Manual Type 6.2.0.10-RF
VIO Intercom with Essex
“S-12 Stand - Alone” Keypad

For Models _____

400-S12-VIO2 410-S12-VIO2

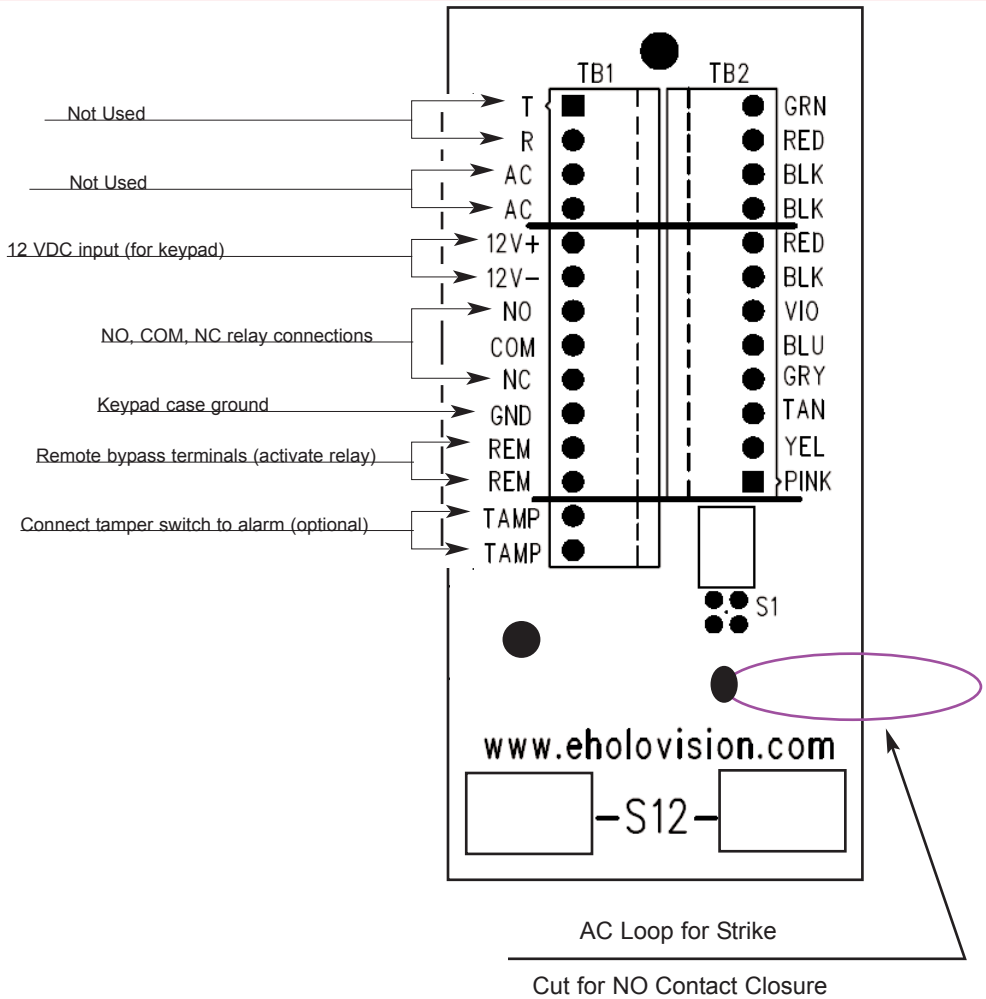
Specifications

Communication

Holovision VIO is a SIP enabled intercom module developed specifically with the custom integrator in mind. It works with Crestron RAVA/SIP and most SIP enabled VoIP phone systems and servers.

Access Control

Essex “stand-alone” 12 button keypad
 1 relay plus 2 grounding outputs
 (external relays required)
 500 users
 12 VDC power supply included



INSTALLATION
INSTRUCTIONS

501 E. Goetz Ave.
 Santa Ana, Ca 92707

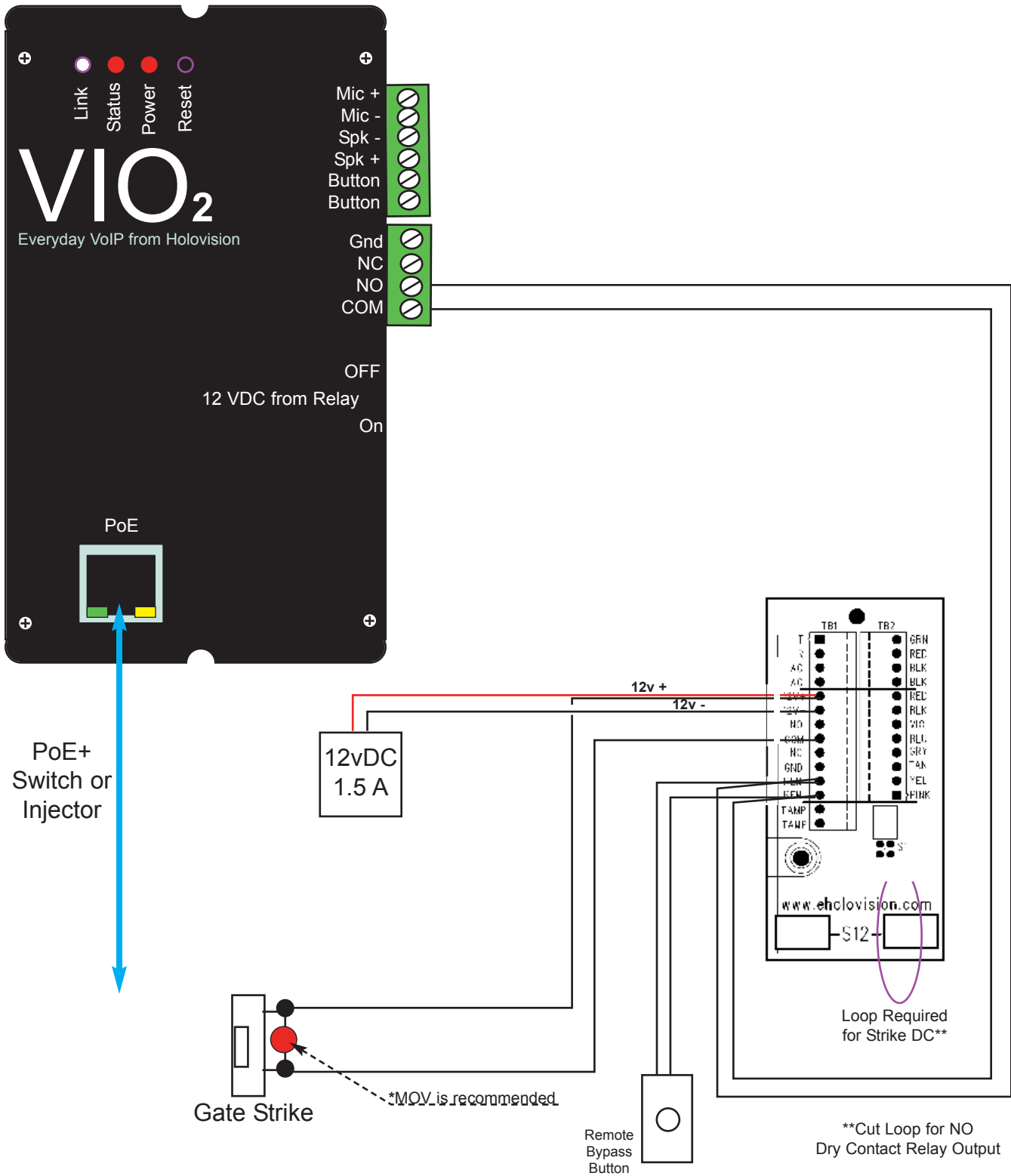
www.eholovision.com

Ph. 714-434-6904
 Fax 800-362-0002

HOLOVISION

Essex Keypad Wiring

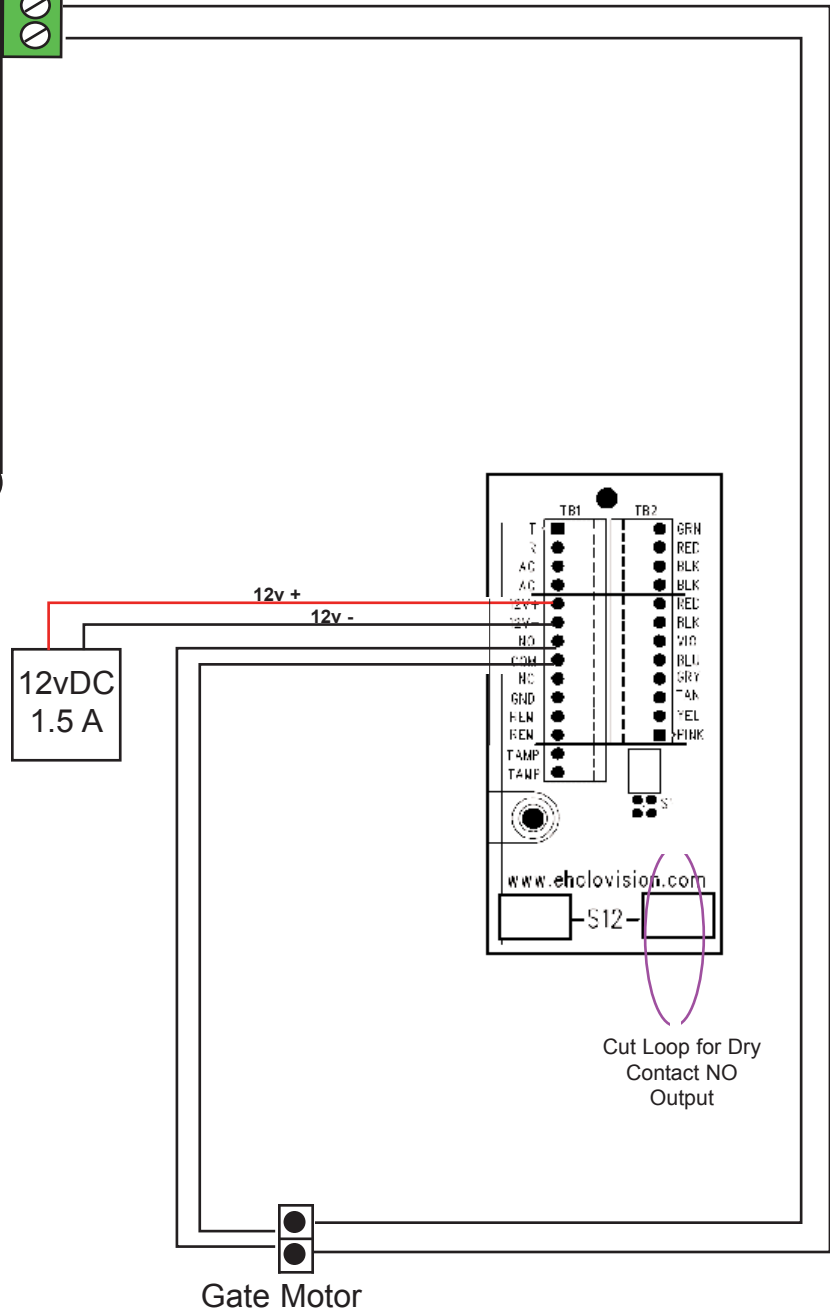
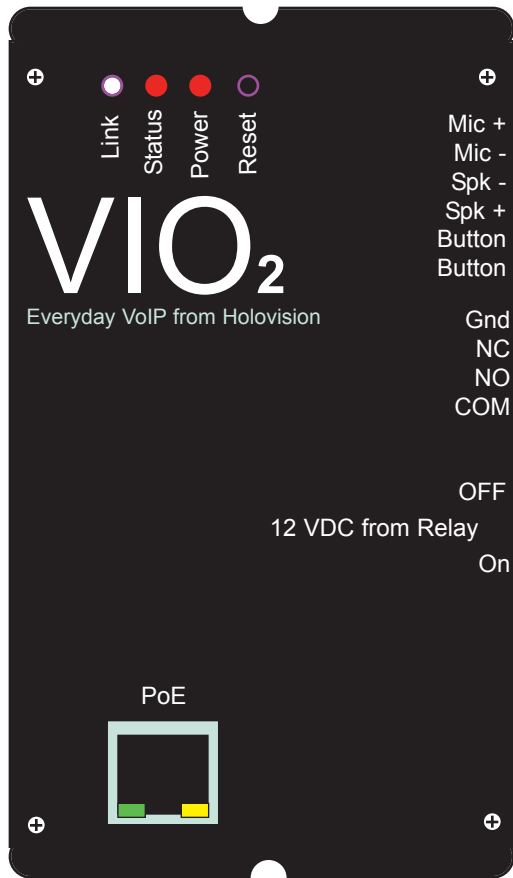
DC Out for Gate Strike



NOTE: MOV (metal oxide varistor) is the small red component which is included. Its purpose is to absorb "inductive kick back" which can be created when power is removed from the strike. Loop is required from 12v positive to contact common for DC power to strike.

Essex Keypad Wiring

Contact Closure for Gate Operation



VIO RAVA Quick Start

1. Plug the device into the network. Device will speak it's IP address.
2. Navigate to device IP on a web browser.
3. Under "Configuration" please enter SIP ID for the name to be displayed, and enter the extension of the Main RAVA Touchscreen under "Input Call ID 0 Default is **CALL:CRESTRON**"

HOME	PROFILES	CONFIGURATION	STATUS	DEFAULTS
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RAVA-SIP™ CLIENT V2.12D(08 Apr 2013)

SIP Door Station

BASIC SETTINGS

Basic Settings
Advanced Settings

Apply Cancel

SIP PROTOCOL SETTINGS

Peer to Peer No Yes

SIP ID (username)

OUTBOUND CALL SETTINGS

Call on Device Inputs

Input 0 Call ID

***Note out of the box the "CALL:CRESTRON" default will ring all touchpanels in the CRESTRON call group.**

4. Configure the Audio settings. **Note:RAVA Operation has been designated to "Push to Talk" (PTT) from Crestron and only this operation will be supported.** Although full duplex and half duplex are an option, these settings do not perform best in all scenarios. As a recommendation you can experiment for the best audio settings.

AUDIO SETTING BELOW ARE ONLY A RECOMMENDATION

HOME	PROFILES	CONFIGURATION	STATUS	DEFAULTS	UPDA
------	----------	---------------	--------	----------	------

RAVA-SIP™ CLIENT V2.12D(08 Apr 2013)

SIP Door Station

AUDIO SETTINGS

Basic Settings
Advanced Settings
Network
SIP Protocol
Outbound Calls
Inbound Calls
Audio
Control Interfaces
Security

Apply Cancel

Input Source Line Mic

Encoding ▾

Volume %

Microphone Gain dB

A/D Amplifier Gain dB

Acoustic Echo Cancellation Off On

Talk Mode FDX HDX

Output Trigger Level

Trigger Level Timeout ms

5. Configure the relay setting under “Inbound Calls”. Configure the powered relay and the dry contact closure. Choose any 2 to 4 digit combination

Note; By configuring the request to exit feature you can configure for either relay.

6. Once the device has been configured you can initiate the call by pressing the button

SIP Door Station

Basic Settings
Advanced Settings
Network
SIP Protocol
Outbound Calls
Inbound Calls
Audio
Security

Apply Cancel

INBOUND CALLS

Input Buffer Level	100	ms
Stream Timeout	0	minutes
Beep on Call Answer	<input checked="" type="radio"/> Off <input type="radio"/> On	
<i>Power Door Relay Control</i>		
Door Open Code	11	
Open Door Relay for	5	seconds
Relay Number to Enable at Call Answer	disabled	
<i>Switched Door Relay Control</i>		
Door Open Code	B&ALL	
Open Door Relay for	1	seconds
Relay Number to Enable at Call Answer	disabled	
Request To Exit Call ID 2	-----	

VIO(sip) QUICK START

1. Plug the device into network. Device will speak its IP.
2. Navigate to device IP on web browser.
3. Under Configuration please enter the required SIP settings

HOME	CONFIGURATION	STATUS	DETAILS	EXPORT	IMPORT
SIP CLIENT					
SIP Client					
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>Basic Settings</p> <p>Advanced Settings</p> <p>Apply Cancel</p> </div> <div style="width: 85%;"> <p>SIP SETTINGS</p> <p>SIP PROTOCOL SETTINGS</p> <p>Use SIP Proxy <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes</p> <p>SIP Server (PDR) 192.168.1.104</p> <p>SIP ID (username) VIO Front Door</p> <p>SIP Password (secret) *****</p> <p>SIP Display Name VIO Front Door</p> <p>OUTBOUND CALL SETTINGS</p> <p>Call on Device Input</p> <p>Input 0 Call ID 100</p> <p>Input 1 Call ID</p> <p>Input 2 Call ID</p> <p>MINIMUM CALLS</p> <p>Phone pickup mode autoanswer</p> <p>Call ring up time 20 seconds</p> </div> </div>					

4. Configure the audio settings.. Although full duplex and half duplex are an option, these settings do not perform best in all scenarios . As a recommendation you can experiment for the best audio settings . **AUDIO SETTINGS BELOW ARE ONLY A RECOMENDATION**

HOME	CONFIGURATION	STATUS	DETAILS	EXPORT	IMPORT
SIP CLIENT					
SIP Client					
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>Basic Settings</p> <p>Audio Settings</p> <p>Advanced Settings</p> <p>Network</p> <p>SIP Protocol</p> <p>Outbound Calls</p> <p>Inbound Calls</p> <p>Audio</p> <p>Security</p> <p>Apply Cancel</p> </div> <div style="width: 85%;"> <p>AUDIO SETTINGS</p> <p>Encoding <u>libsrtp 8 kHz (G.711)</u></p> <p>Volume <u>50</u> %</p> <p>Microlinear Gain <u>20</u> dB</p> <p>AD Amplifier Gain <u>0</u> dB</p> <p>Acoustic Echo Cancellation <input type="radio"/> Off <input checked="" type="radio"/> On</p> <p>Talk Mode <input type="radio"/> ITT <input checked="" type="radio"/> HDT</p> <p>Output Trigger Level <u>1000</u></p> <p>Trigger Level Timeout <u>500</u> ms</p> <p>AlPhone Support <input type="radio"/> Yes <input checked="" type="radio"/> No</p> </div> </div>					

- Configure the relay settings under inbound calls. Configure the powered relay and also the dry contact closure; chose any 2 to 4 digit code.
Note: By configuring the request to exit feature, You can trigger either relay 1 or 2 by doing so.
- Once the device has been configured you can initiate the call by pressing on the button.

SIP Door Station

Basic Settings	INBOUND CALLS	
Advanced Settings	Input Buffer Level	100 ms
Network	Stream Timeout	0 minutes
SIP Protocol	Keep on Call Answer	<input checked="" type="radio"/> Off <input type="radio"/> On
Outbound Calls	<i>Power Door Relay Control</i>	
Inbound Calls	Door Open Code	11
Audio	Open Door Relay for	5 seconds
Security	Relay Number to Enable at Call Answer	disabled
	<i>Switched Door Relay Control</i>	
	Door Open Code	22
	Open Door Relay for	1 seconds
	Relay Number to Enable at Call Answer	disabled
	Request To Exit Call ID ?	

Programming the Essex Keypad

Set Keypad Illumination to **ON ALL OF THE TIME**

STEP	ACTION	BEEP	Red LED	Green LED
1	Remove power			
2	Jumper the "CONFIG" pins on the rear of the keypad . V = 12			
3	Apply 12 VDC power to red and black wires	Quadruple Beep	Flash	Solid
4	Enter 9 9 followed by #	Double Beep	Flash	Solid
5	Enter 2 1 4 followed by #	Triple Beep	Flash	Solid
6	Remove power			
7	Remove "CONFIG" jumper			
8	Reapply power			

Set Master Code

STEP	ACTION	BEEP	Red LED	Green LED
1	The default Master Code is "123". This can be changed to a unique code 3 - 8 digits long			
2	Enter * 3 1 2 3 #	Double Beep	Fast Flash	Solid
3	Enter 1 #	Double Beep	Fast Flash	Slow Flash
4	Enter new master code, followed by #	Triple Beep	Fast Flash	Solid
5	Enter * *	Double Beep		
6	EXAMPLE: old code is 123, new code is 456 * 3 1 2 3 # 1 # 4 5 6 # * *			

Note: If the User ID, or User Code/PIN has already been assigned, you will hear one long beep when # is entered. In this case, choose a different User ID / PIN, or see the instructions for changing or deleting codes.

DEFAULT USER CODE & MASTER CODE IS "123#"

Programming the Essex Keypad

Set User Codes

STEP	ACTION	BEEP	Red LED	Green LED
1	The Master Code is necessary to do this step. Master Code "123" is used as an example.			
2	Enter * 1 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 1 # N	Double Beep	Slow Flash	Slow Flash
4	Enter 1st User ID (1-500), followed by # N	Double Beep	Slow Flash	Fast Flash
5	Enter 1st User Code/PIN, followed by # N	Double Beep	Slow Flash	Fast Flash
6	Enter # to complete User 1 programming N	Triple Beep	Slow Flash	Slow Flash
7	Enter 2nd User ID (1-500), followed by #	Double Beep	Slow Flash	Fast Flash
8	Enter 2nd User Code/PIN, followed by #	Double Beep	Slow Flash	Fast Flash
9	Enter # to complete User 2 programming	Triple Beep	Slow Flash	Slow Flash
10	Enter * * * *	Double Beep X 2		
Example for entering user code 1 and 2- * 1 1 2 3 # 1 # 1# 4 5 6 ## 2 # 7 8 9 ## * * * *				

Changing User Codes - using User ID

STEP	ACTION	BEEP	Red LED	Green LED
1	The Master Code is necessary to do this step. Master Code "123" is used as an example.			
2	Enter * 1 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 2 #	Double Beep	Slow Flash	Slow Flash
4	Enter User ID to be changed (1-500), followed by #	Double Beep	Slow Flash	Fast Flash
5	Enter new User Code/PIN, followed by # N	Double Beep	Slow Flash	Fast Flash
6	Enter # to complete programming	Triple Beep	Slow Flash	Slow Flash
7	Enter * * * *	Double Beep X 2		
Example for changing user code 1- * 1 1 2 3 # 2 # 1 # 7 8 9 ## * * * *				

N **Note:** If the User ID, or User Code/PIN has not been assigned, you will hear one long beep when # is entered.

Programming the Essex Keypad

Deleting User Codes - using User Code/PIN

STEP	ACTION	BEEP	Red LED	Green LED
1	The Master Code is necessary to do this step. In this example, the Master Code is 123			
2	Enter * 1 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 5 # N	Double Beep	Slow Flash	Slow Flash
4	Enter User Code/PIN to be changed, followed by #	Double Beep	Slow Flash	Fast Flash
5	Enter new User Code/PIN, followed by #	Double Beep	Slow Flash	Fast Flash
6	Enter # to complete programming	Triple Beep	Slow Flash	Slow Flash
7	Enter * * * *	Double Beep X 2		

Example for deleting user code # 456- * 1 1 2 3 # 5 # 4 5 6 # 7 8 9 # # * * * *

Deleting User Codes - using User ID

STEP	ACTION	BEEP	Red LED	Green LED
1	The Master Code is necessary to do this step. In this example, the Master Code is 123			
2	Enter * 1 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 4 #	Double Beep	Slow Flash	Slow Flash
4	Enter 1st User ID to be deleted (1-500), followed by # N	Triple Beep	Slow Flash	Fast Flash
5	Enter 2nd User ID to be deleted (1-500), followed by # N	Triple Beep	Slow Flash	Fast Flash
6	Enter * * * *	Double Beep X 2		

Example for deleting user ID 1 and 2- * 1 1 2 3 # 4 # 1 # 2 # # * * * *

N **Note:** If the User ID, or User Code/PIN has not been assigned, you will hear one long beep when # is entered.

Programming the Essex Keypad

Reset Keypad to Factory Defaults--- This is not normally necessary, but can be done as follows

STEP	ACTION	BEEP	Red LED	Green LED
1	Remove power			
2	Jumper the "CONFIG" pins on the rear of the keypad			
3	Apply 12 VDC power to red and black wires ONLY	Quadruple Beep	Flash	Solid
5	Enter 0 0 9 9 #	Double Beep	Flash	3 Sec Flash
6	WAIT about 4 seconds	Quadruple Beep	Flash	Solid
7	Enter 9 9 #	Triple Beep	Flash	Solid
8	Remove power			
9	Remove "CONFIG" jumper			
10	Reapply power			

Setting Main Relay Opening Time

STEP	ACTION	BEEP	Red LED	Green LED
1	The default Master Code is "123". This can be changed to a unique code 3 - 8 digits long.			
2	Enter *3 1 2 3 #	Double Beep	Slow Flash	Solid
3	Enter 2 #	Double Beep	Slow Flash	Slow Flash
4	Enter the desired activation time in Seconds followed by #	Triple Beep	Slow Flash	Solid
5	Enter * * to exit			
6	Example: 2 # 10 # * * (10 second activation time)			

Note: If the User ID, or User Code/PIN has not been assigned, you will hear one long beep when # is entered.

