



Package Contains

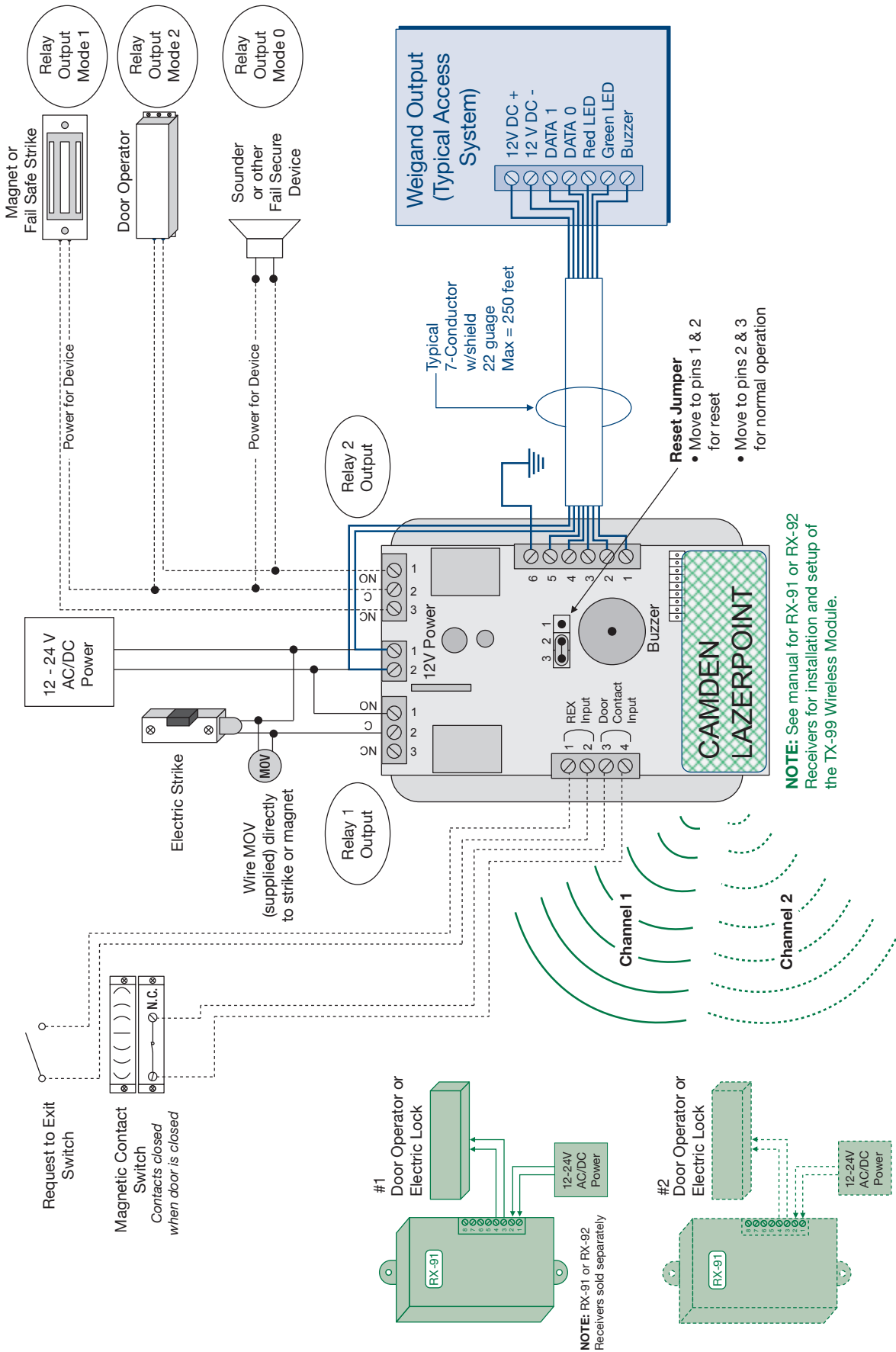
- 1 Keypad and faceplate assembly
- 1 Foam gasket (CM-120W only)
- 1 Lock Varistor (MOV)
- 2 #6-32 x 1" S/S Phillips Screws
- 2 #6-32 x 1" Tamperproof screws
- 1 Tamperproof screwdriver

Specifications

Models	CM-120i / CM-120wV2
Illumination	CM-120i: No, CM-120wV2: Yes
Size	2 3/4" x 4 1/2" x 3/4" (69.85mm x 114.30mm x 19.05mm)
Mounting	2 x #6-32 machine screws
Temperature	-40° F to +185° F (-40° C to +85° C)
Operating Voltage	12 / 24 Volts, AC / DC
Current Draw	30 mA standby, 90 mA max.
Capacity	999 User codes
Length (possible codes)	Up to 8 digits (10 million possible codes)
Response Time	0.3 seconds
Inputs	1 x REX input 1 x Door Contact Input
Relay Output	2 x Form C (SPDT)
Relay Contact Rating	3 amps @ 24 VDC/120 VAC
Wiegand Output	26 bit raw (opt. Facility code)
RF Output	2-channel w/ optional TX-99
Time Delay	1 to 255 seconds, or Latched

Name	Memory Address	User Code	Name	Memory Address	User Code
Master User	1	1234		36	
Manager	2			37	
User #1	3			38	
User #2	4			39	
Etc...	5			40	
	6			41	
	7			42	
	8			43	
	9			44	
	10			45	
	11			46	
	12			47	
	13			48	
	14			49	
	15			50	
	16			51	
	17			52	
	18			53	
	19			54	
	20			55	
	21			56	
	22			57	
	23			58	
	24			59	
	25			60	
	26			61	
	27			62	
	28			63	
	29			64	
	30			65	
	31			66	
	32			67	
	33			68	
	34			69	
	35			70	

Make additional copies as required...



NOTE: See manual for RX-91 or RX-92 Receivers for installation and setup of the TX-99 Wireless Module.

- Reset Jumper**
- Move to pins 1 & 2 for reset
 - Move to pins 2 & 3 for normal operation

NOTE: Optional equipment shown as dotted lines

Legend

[]	Keypad keys are pressed and released simultaneously.
1...#	Keypad keys
	LED's are flashing
	LED's are solid
	Keypad beeps
	Keypad beeps from low to high

User Functions

Add/Change User	[* + 2]	<USER NUMBER>	#	<USER CODE>	*	<USER CODE>	*
Delete User	[* + 2]	<USER NUMBER>	#	*	*		

NOTE: Master code is in Position #1 can be changed-not deleted

Programming Mode

[* + 1]	<MASTER CODE>	*
	Default = 1234	

NOTE: You must enter Programming Mode before any other programming can take place.

Exit Programming

*	,	#	,	*

NOTE: After exiting programming mode, all LED's are OFF and the keypad is in standby mode.

Memory Reset

Erase Keypad Memory Reset ALL to Factory	[* + 9]	<MASTER CODE>	*		

Admin Functions

Set Enter Key	[* + 1] 0, #	<NEW ENTER KEY> (* =Default)	[*] [Speaker] [Sun]
Set Code Length	[* + 1] 1, #	<CODE LENGTH> 0=variable (default), valid entries = 1 - 8	[*] [Speaker] [Sun]
Incorrect Code Count Alarm	[* + 1] 2, #	<# OF INVALID USER CODES> Default 0=Disabled	[*] [Speaker] [Sun]
Force Unique User Codes	[* + 1] 3, #	<ENTRY> 1=Enabled (default), 0=Disabled	[*] [Speaker] [Sun]
Anti-Tailgating	[* + 1] 4, #	<ENTRY> 1=Enabled, 0=Disabled (default)	[*] [Speaker] [Sun]
Backlight Control	[* + 1] 5, #	<ENTRY> 1=Enabled, 0=Disabled (default)	[*] [Speaker] [Sun]
User 2 "Global Lockout"	[* + 1] 6, #	<ENTRY> 1=Enabled, 0=Disabled (default)	[*] [Speaker] [Sun]
Relay Output Mode	[* + 1] 7, #	<ENTRY> Relay 1 (default), 1=Split, 2=Sequenced	[*] [Speaker] [Sun]
	[Speaker] [Speaker] [Speaker]	[Speaker]	[Speaker]
	[Sun] [Sun] [Sun]	[Sun]	[Sun]

Annunciation Control Functions

Yellow LED Enable	[* + 6] 0, #	<ENTRY> 0=disabled,1=enabled (default)	[*] [Speaker] [Sun]
Buzzer Enable	[* + 6] 1, #	<ENTRY> 0=disabled,1=enabled (default)	[*] [Speaker] [Sun]
Correct Code Audio Tone	[* + 6] 2, #	<ENTRY> 0=disabled (default), 1=enabled	[*] [Speaker] [Sun]
Incorrect Code Audio Tone	[* + 6] 3, #	<ENTRY> 0=disabled, 1=enabled (default)	[*] [Speaker] [Sun]
REX Release Enable	[* + 6] 4, #	<ENTRY> 0=disabled, 1=enabled (default)	[*] [Speaker] [Sun]
REX Audio Tone	[* + 6] 5, #	<ENTRY> 0=disabled (default), 1=enabled	[*] [Speaker] [Sun]
Secure LED Enable	[* + 6] 6, #	<ENTRY> 0=disabled (default), 1=enabled	[*] [Speaker] [Sun]
	[Speaker] [Speaker] [Speaker]	[Speaker]	[Speaker]
	[Sun] [Sun] [Sun]	[Sun]	[Sun]

Time Delay/Duration Functions

Relay 1 Operate Duration	[* + 3] 0, #	<OPERATE TIME> Default 8s (0-255 allowed)	[*] [speaker] [sun]
Door Prop Open Alarm Delay	[* + 3] 2, #	<DELAY TIME> Default: Disabled	[*] [speaker] [sun]
Relay 2 Operate Duration	[* + 3] 3, #	<OPERATE TIME> Default 8s (0-255 allowed)	[*] [speaker] [sun]
Relay 2 Delay on Operate	[* + 3] 4, #	<DELAY TIME> Default 4s (1-255 allowed)	[*] [speaker] [sun]
	[speaker] [speaker] [speaker] [speaker] [speaker]		
	[sun] [sun] [sun] [sun] [sun]		

NOTE: Relay output mode must be set to Split or Sequenced for Relay 2 operate duration and delay on operate functions to work. Operate and Delay times are in seconds.

Latching Mode

Set "Latching Mode" for a User	[* + 0] <USER NUMBER> #	<ENTRY> 0=disabled (default), 1=enabled	[*] [speaker] [sun]
	[speaker] [speaker] [speaker] [speaker] [speaker]		
	[sun] [sun] [sun] [sun] [sun]		

Alarm Control Functions

Incorrect Code Alarm	[* + 4] 0, #	<ENTRY> 0=disabled (default), 1=buzzer, 2=relay 2, 3=buzzer & relay2	[*] [speaker] [sun]
Stuck Key Alarm	[* + 4] 2, #	<ENTRY> 0=disabled (default), 1=buzzer	[*] [speaker] [sun]
Door Prop Open Alarm	[* + 4] 3, #	<ENTRY> 0=disabled (default), 1=buzzer, 2=relay 2, 3=buzzer & relay2	[*] [speaker] [sun]
Incorrect Code Alarm Lockout	[* + 4] 5, #	<ENTRY> 0=disabled (default), 1=buzzer	[*] [speaker] [sun]
Door Forced Open Alarm	[* + 4] 6, #	<ENTRY> 0=disabled (default), 1=buzzer, 2=relay 2, 3=buzzer & relay2	[*] [speaker] [sun]
	[speaker] [speaker] [speaker] [speaker] [speaker]		
	[sun] [sun] [sun] [sun] [sun]		

Wiegand Control Functions

Wiegand Protocol Selection	[* + 5] 0, #	<ENTRY> 0=disabled (default), 1=26 bit, 2=26 bit & facility code	[*] [speaker] [sun]
Wiegand Facility Code	[* + 5] 1, #	<FACILITY CODE> Default: 34 (Camden) (0-255 allowed)	[*] [speaker] [sun]
	[speaker] [speaker] [speaker] [speaker] [speaker]		
	[sun] [sun] [sun] [sun] [sun]		

Troubleshooting Tips

Symptom	Solution
<i>Cannot get into programming mode</i>	<p>The keypad requires the * and 1 be pressed and released simultaneously to prevent accidental programming.</p> <p>Enter the correct Master Code (default=1234)</p>
<i>Cannot Program a User Code</i>	<p>User code 1 is reserved for the Master Code and will not activate the Relays</p> <p>Enter User Functions (above)</p>
<i>Code does not activate the door</i>	<p>The keypad Relays do NOT provide any voltage and therefore will not operate the strike without a separate power supply.</p> <p>Ensure the strike is wired correctly.</p>
<i>Lost/Forgot Master Code</i>	<p>Move the jumper (located on the back of the keypad.) From pins 2 + 3 to pins 1 + 2 all the LED's will blink and beep 4 times pause and then 4 more times. Once reset is complete, move jumper back to pins 2 + 3.</p> <p>This resets the master code only all user codes + other programmed functions stay the same (as they where previously programmed)</p>
<i>Nothing happens when the code is entered. No lights. No sound, nothing (Dead)</i>	<ol style="list-style-type: none">1) Check the keypad power supply with a volt meter to ensure power is present.2) Cycle the power. (Remove power from the keypad for 60 seconds, then re apply power)
<i>Red light blinks slowly. Can not enter any code</i>	<ol style="list-style-type: none">1) Possible stuck button condition-check all buttons, run finger on button to free stuck button.2) Door open condition-close door or service door contact. If condition does not change, cycle the power (Remove power for 60 seconds, then re apply power).

Before calling Tech Support please have:

- 1- Product Number
- 2- Product in front of you
- 3- Voltmeter/Multimeter
- 4- Manual



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