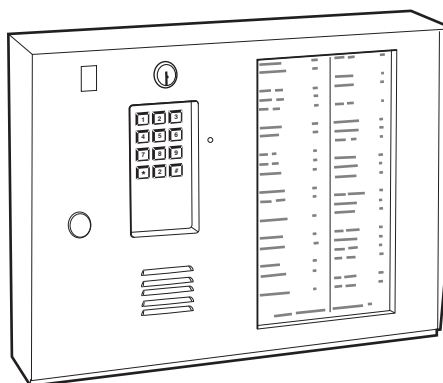
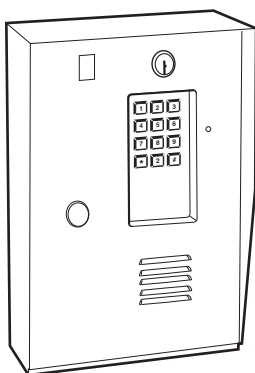


SPECTRUM SYSTEMS

(-301 BOARD)

QUICK REFERENCE GUIDE



WIRING GAUGES AND DISTANCE

Never run any power wiring in the same conduit as the phone line or control wiring.

DISTANCE	POWER WIRING DISTANCES	
	AC POWER WIRE	DC POWER WIRE
Under 30 Feet	18 AWG	18 AWG
30 - 75 Feet	14 AWG	18 AWG
75 - 150 Feet	12 AWG	14 AWG
150 - 250 Feet	10 AWG	12 AWG
250 - 500 Feet	NOT RECOMMENDED	10 AWG

TERMINAL CONNECTIONS

NAME REFERENCE / TERMINAL	DESCRIPTION
AUX (TB1 - Main Bd.)	Auxiliary Open Device Input for Relay 1
DOOR (TB1 - Main Bd.)	Door Position Sense for Relay 1
TELCO LINE (TB1 - Daughter Bd.)	Phone Line Connection
RELAY 1 (TB3)	Relay Contacts to Control a Door Strike, Gate Operator, Etc.
RELAY 2 (TB4)	Relay Contacts to Control a Second Door Strike, Gate Operator, Etc.
12 V AC/DC POWER (TB5)	Main Power for the Unit, 12V AC, 13.5V DC
LAMP PWR (TB8)	+12V AC for Directory Lamps

COMPONENT CONNECTIONS

NAME REFERENCE / CONNECTOR	DESCRIPTION
KEYPAD INPUT (P2)	Connection for Panel Keypad
POSTAL LOCK (P8)	Input for Postal Lock Switch
PANEL MIC (J1 - Daughter Bd.)	Connection for Panel Microphone
CLICK ENABLE (J2)	Enable Pulse Detection (Rotary Phones)
PANEL SPEAKER (J4)	Connection for Panel Speaker
KEYPAD LAMPS (J5)	+12V AC for Keypad Lamps

BOARD ADJUSTMENTS

NAME REFERENCE / AREA	DESCRIPTION
MONITOR CLEAR (S1)	Clears the Power Monitor, LEDES D17, D18, & D19
SPEAKER LEVEL (VR1)	Adjusts the Panel Speaker Volume
CLICK LEVEL (VR3)	Adjusts the Pulse Detection Threshold
MIC SENS (VR6 - Daughter Bd.)	Adjusts volume heard by tenant. Use 0.1" wide tool to adjust.
LINE BAL 1 & 2 (VR4 & VR5 - Daughter Bd.)	Feedback / Side Tone Adjustment for Audio

BASIC PROGRAMMING

After each programming entry, press the ENTER key.

STEP NO.	DESCRIPTION	EXAMPLE	DESCRIPTION	REMOTE PROGRAM?
00	Terminate Programming	00+#		Yes
01	Set Password	01+nnnnnn+#		Yes
02	Verify Password	02+nnnnnn+#	1=nnnnnn matches current setting, 0 = no match	No
03	Set Dialing Type	03+n+#	Sets dialing type to tones (1), pulses (0)	Yes
	Verify Dialing Options	03+#	(1/0 for tone/pulse)	No
04	Set Rings Before Answer	04+n+#	Sets rings before answer to 0 <=n <=9	Yes
	Verify Rings Before Answer	04+#	If 0, don't answer	No
05	Set Visitor Talk Time	05+n+#	015 <=n <255	Yes
	Verify Visitor Talk Time	05+#		No
06	Set PBX Digit	06+n+#	Set PBX digit	Yes
	Verify PBX Digit	06+#	Display PBX digit	No
	Erase PBX Digit	06+101010+#	Erase PBX digit	Yes
07	Program Relay Activation Time	07+r1+r2+#	Sets relay 1 to r1 (2 digits) and relay 2 to r2 (2 digits)	Yes
	Verify Relay Activation Time	07+#		No
08	Set Directory Code Length	08+n+#	Sets code length to 1 <= 4 digits 1<=n <=4	Yes
	Verify Directory Code Length	08+#		No
09	Program Directory Code and Phone Number	09+d[ddd]+t[ttttttttt]+#	Sets code d[ddd] (1-4 digits) to t[ttttttttt] up to 12 digits	Yes
	Verify Directory Code and Phone Number	09+d[ddd]+#		No
10	Erase Directory Code and Phone Number	10+d[ddd]+#	Erases directory code d[ddd] (1-4 digits)	Yes
11	Erase All Directory Codes and Phone Numbers	11+101010+#	Erases all directory codes	Yes
12	Set # of wrong entry codes	12+n+#	Sets incorrect entry codes allowed to 0 <=n <=9	Yes
	Verify # of wrong entry codes	12+#	If n=0, strikes and out is disabled	No
13	Program Entry Code	13+eeee+#	Sets entry code eeee with relay action code 1	Yes
	Program Entry Code + Relay Action Code (RAC)	13+eeee+r+#	Sets entry code with specified relay action code 'r'	Yes
14	Erase Entry Code	14+eeee+#	Erases entry code eeee (4 digits)	Yes
15	Erase All Entry Codes	15+101010+#	Erases all entry codes	Yes
52	System Reset			
69	Adjust Side Tone	69+#	For adjusting the side tone at LINE BAL 1 & LINE BAL 2 (if present); necessary for SVWin communications and for correcting sound distortion	No
7r	Relay Management Functions	7+r+#	Performs the specified relay action 'r'	Yes

Error Messages: E1 - Does not exist; E2 - Duplicate found; E3 - System is full; E5 - Format error