

**RANGER 9008 & 9016
INSTALLATION MANUAL**

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RANGER 9008 & 9016 AUXILIARY DEVICES

General Description

The Caddx models 9008 & 9016 are versatile microcomputer controlled add on modules for the Ranger 9000 family of control panels. The 9008 provides 8 separate normally open and normally closed relay contacts that can be used for a variety of applications including access control, home control/automation, wireless interfaces, and security functions. The 8 outputs can be separately programmed for over 200 functions including code entry, individual zone alarms or faults, and phone-faults. The relays can be programmed to activate for an event in any or all partitions. In addition, the timing of these relays can be separately programmed for up to 30 minutes. Each relay has a separate programmable "on/off" time that can be programmed to either activate the relay during the "on" time, or used in conjunction with another programming option to create time zones. The 9008 also has a built in serial interface that can be connected to a serial printer for local printouts of all communicator activity. The printouts include date/time activity and partition information. The 9008 can be easily programmed using the 8950 programmer, or downloaded using the CADDX DL900 software. The 9016 provides all of the above features in a low-cost, compact 16 voltage output configuration. Multiple 9008 & 9016 devices can be added to a single 9000 control panel.

NOTE: FOR THESE DEVICES TO FUNCTION PROPERLY, LOCATION 377 OF THE 9000E CONTROL PANEL MUST BE PROGRAMMED FOR THE NUMBER OF EXPANSION DEVICES BEING USED.

4-Position Dip Switch Settings

1. Expansion ID Number: Each expansion device (zone expander, auxiliary output board, etc.) connected to the 9000 must report a unique number to the control via the 4-wire buss. Positions 1, 2, and 3 of this 4 position dip switch located in the center of the 9008 are used to assign this number. Use the following chart to select the appropriate dip switch setting for the 9008/9016. For example if the 9008 is the only expansion device being used, dip switch 1, 2, and 3 should be "OFF". If the 9008/9016 is the third expansion board on the bus then switch 1 would be off, switch 2 would be on, and switch 3 would be off. There should never be a number skipped when programming these switches.

Device Number	Position #1	Position #2	Position #3
1	OFF	OFF	OFF
2	ON	OFF	OFF
3	OFF	ON	OFF
4	ON	ON	OFF
5	OFF	OFF	ON
6	ON	OFF	ON
7	OFF	ON	ON

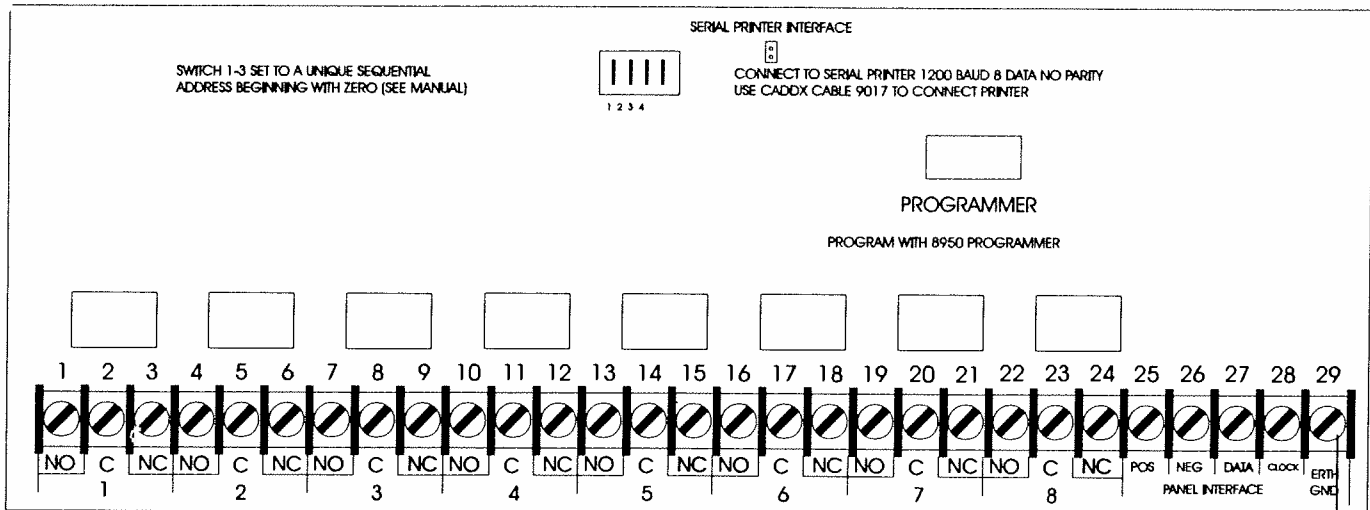
Using the Serial Printer Interface

The 9008/9016 is equipped with a Serial RS-232 type interface. It runs at 1200 Baud 8 data bits no parity. The serial interface is a 2 position pin connector with the pins labeled signal and signal ground. Connect the pin labeled Signal to the receive data pin of the serial printer (usually pin 3). Connect the pin labeled Signal ground to the signal ground pin of the serial printer (usually pin 7). The printer will print the date/time and partition of all events that the communicator is capable of reporting. For ease of installation, use the 9017 Printer Interface Cable. **NOTE: Anything programmed to report to the central station and/or event log, will automatically be sent to the printer.**

9008 TERMINAL DESCRIPTION

TERMINAL	DESCRIPTION
1	Relay 1 normally open contact rated 1 Amp at 30 VDC.
2	Relay 1 common contact rated 1 Amp at 30 VDC.
3	Relay 1 normally closed contact rated 1 amp at 30 VDC.
4 - 24	Same as 1-3 for relays 2-8.
25	Auxiliary power input 12 VDC max current 350 mA (if all 8 relays used).
26	Auxiliary power negative (must be home run to control panel).
27	Keypad bus data terminal (must be home run to control panel).
28	Keypad bus clock terminal (must be home run to control panel).
29	Earth ground.

9008 TERMINAL DRAWING



NO - NORMALLY OPEN DRY CONTACT RATED 1 AMP AT 30 VOLTS
 C - COMMON DRY CONTACT RATED 1 AMP AT 30 VDC
 NC - NORMALLY CLOSED DRY CONTACT RATED 1 AMP AT 30 VOLTS

STANDBY CURRENT 40 mA
 CURRENT WITH ALL 8 RELAYS ACTIVE 360 mA

CONTROL CONNECTIONS:

1. MAXIMUM WIRE RUN
 - a. 22 GAUGE 200 FEET
 - b. 18 GAUGE 500 FEET
2. CONTROL CONNECTIONS MUST BE HOME RUN

CONNECT TERMINALS 25-28 TO CONTROL PANEL 4 WIRE KEYPAD INTERFACE.

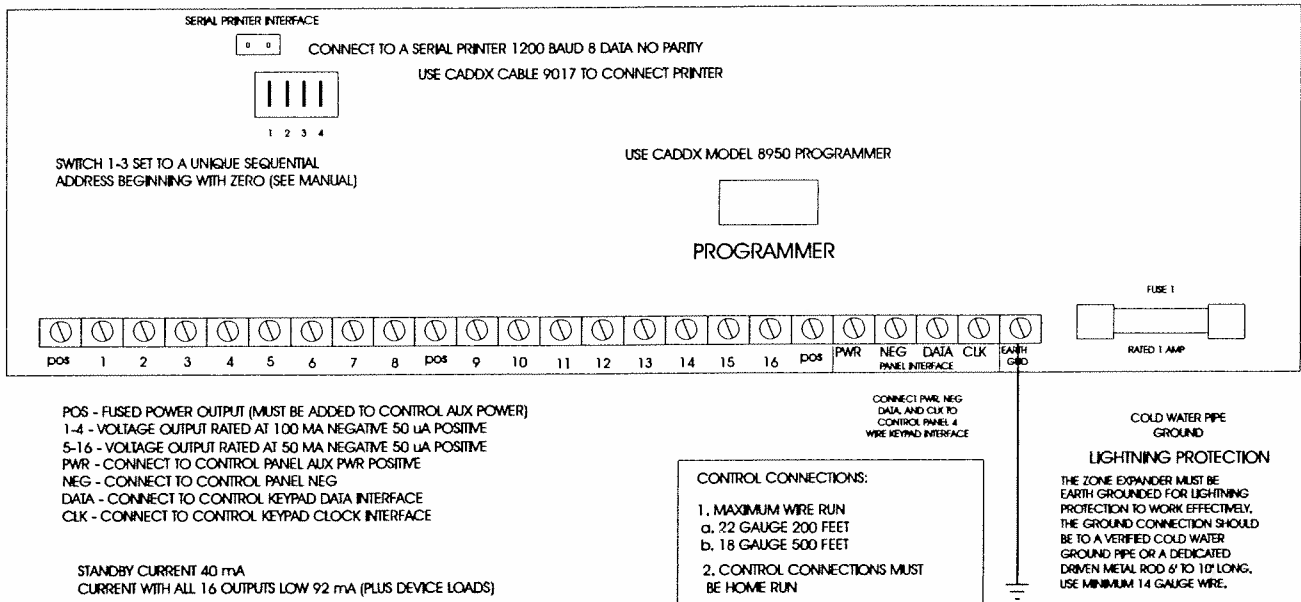
LIGHTNING PROTECTION

THE ZONE EXPANDER MUST BE EARTH GROUNDED FOR LIGHTNING PROTECTION TO WORK EFFECTIVELY. THE GROUND CONNECTION SHOULD BE TO A VERIFIED COLD WATER GROUND PIPE OR A DEDICATED DRIVEN METAL ROD 6' TO 10' LONG. USE MINIMUM 14 GAUGE WIRE.

9016 TERMINAL DESCRIPTION

TERMINAL	DESCRIPTION
POS	Auxiliary output positive.
1	Output 1 rated 100 mA when negative.
2	Output 2 rated 100 mA when negative.
3	Output 3 rated 100 mA when negative.
4	Output 4 rated 100 mA when negative.
5-16	Output 5-16 rated 50 mA when negative.
POS	Auxiliary output positive.
PWR	12 VDC power input rated 30 mA plus current of devices connected to 1-16 (must be home run to control).
GND	Auxiliary power negative (must be home run to control panel).
DATA	Keypad bus data terminal (must be home run to control panel).
CLK	Keypad bus clock terminal (must be home run to control panel).
EGND	Earth ground.

9016 TERMINAL DRAWING



PROGRAMMING THE OUTPUTS

Locations 000 thru 255 contain the programming data for the characteristics of the outputs. Each output has sixteen possible programming locations. The following sixteen locations describe the programming for output #1. The remaining outputs can be addressed by referring to the programming worksheets in the back of this manual.

Locations 000-003: Programming the Output 1 Options

Locations 000 through 003 control the output options for output number 1. The following descriptions of these data locations will help you to understand how to program each of these locations.

DATA 1 (Source) - The number programmed in the **Data 1** location is used to direct the control as to which partition(s) will be the partition or partitions to initiate the output activation. When partitions are being used, programming selections are as follows:

DATA	PARTITIONS ENABLED
1	Partition 1
2	Partition 2
3	Partition 1 or 2
4	Partition 3
5	Partition 1 or 3
6	Partition 2 or 3
7	Partition 1, 2, or 3
8	Partition 4
9	Partition 1 or 4
10	Partition 2 or 4
11	Partition 1, 2, or 4
12	Partition 3 or 4
13	Partition 1, 3, or 4
14	Partition 2, 3, or 4
15	Partition 1, 2, 3, or 4

DATA 2 (Duration)- The number programmed in the **Data 2** location represents the amount of time that an output will remain activated. This duration time is selectable in 2 second increments, from 2 to 30 seconds. For example, programming a "5" in the data 2 location will create a voltage trigger that would last for 10 seconds (2 x "5" = 10 seconds). Programming a "0" will cause the output to follow the condition. Programming selections for this location are the numbers "0" through "15". NOTE: If you want to change the increments from seconds to minutes, follow the programming instructions for location 004 to do so, and the duration time will be selectable from 2 to 30 minutes.

DATA 3 (Category) - The number programmed in the **Data 3** location will determine the category from which you will select an activation event. Refer to the following table below to select which category number to program in this location. Programming selections for this location are "0" through "15".

DATA 4 (Event) - The number programmed in the **Data 4** location will determine the actual event in which you wish to have the trigger activate upon. Refer to the table below to select which event number to program in this location. Programming selections for this location are "0" through "15".

DATA 3 CATEGORY	DATA 4 EVENT	DESCRIPTION OF EVENT
"0"	"0-15"	"OPEN" on individual zones 1 through 16.
"1"	"0-15"	"OPEN" on individual zones 17 through 32.
"2"	"0-15"	"SHORT" on individual zones 1 through 16.
"3"	"0-15"	"SHORT" on individual zones 17 through 32.
"4"	"0-15"	"OPEN or SHORT" on individual zones 1 through 16.
"5"	"0-15"	"OPEN or SHORT" on individual zones 17 through 32.
"6"	"0-15"	"BYPASS REPORT" of individual zones 1 through 16.
"7"	"0-15"	"BYPASS REPORT" of individual zones 17 through 32.
"8"	"0-15"	"TROUBLE REPORT" on individual zones 1 through 16.
"9"	"0-15"	"TROUBLE REPORT" on individual zones 17 through 32.
"10"	"0-15"	"ALARM" on individual zones 1 through 16.
"11"	"0-15"	"ALARM" on individual zones 17 through 32.
"12"	"0"	Any "FIRE ALARM".
	"1"	Any "PANIC ALARM".
	"2"	Any "BURGLARY ALARM".
	"3"	Any "TROUBLE REPORT".
	"4"	Any "BYPASS REPORT".
	"5"	Any "EARLY TO OPEN REPORT".
	"6"	Any "LATE TO CLOSE REPORT".
	"7"	"AC FAILURE REPORT"
	"8"	"DURESS"
	"9"	"AUXILIARY 1"
	"10"	"AUXILIARY 2"
	"11"	"KEYPAD PANIC" (double keypress * and #)
	"12"	"KEYPAD TAMPER"
	"13"	"AUTO TEST"
	"14"	RESERVED
"15"	"CANCEL"	

DATA 3 CATEGORY	DATA 4 EVENT	DESCRIPTION OF EVENT
"13"	"0"	Activation of "INSTANT (PARTIAL) LED"
	"1"	Activation of "ARMED LED"
	"2"	"READY LED"
	"3"	"AC LED"
	"4"	"ENTRY DELAY"
	"5"	"FIRE LED"
	"6"	"TROUBLE LED"
	"7"	"ALARM MEMORY"
	"8"	"LOW BATTERY"
	"9"	"PULSING SOUNDER"
	"10"	Activation of the "Steady Siren"
	"11"	Activation of the "Yelping Siren"
	"12"	Activation of any siren
	"13"	"DISARMED STATE"
	"14"	"NOT READY STATE"
"15"	RESERVED	
"14"	"0"	"ANY VALID CODE ENTRY" SEE locations 256-375 for code enable
	"1-15"	"ANY VALID CODE ENTRY" SEE locations 256-375 for code enable
"15"	"0"	RESERVED
	"1"	RESERVED
	"2"	RESERVED
	"3"	RESERVED
	"4"	"RESETTABLE AUXILIARY/SMOKE DETECTOR POWER
	"5"	"DYNAMIC BATTERY TEST"
	"6"	"LINE SEIZURE"
	"7"	"OPEN ON ANY ZONE"
	"8"	"SHORT ON ANY ZONE"
	"9"	"OPEN OR SHORT ON ANY ZONE"
	"10"	"AFTER OPEN TIME BEFORE CLOSING TIME"
	"11"	"AFTER CLOSING TIME BEFORE OPENING TIME"
	"12"	"DOWNLOAD COMPLETE"
	"13"	"FAILED TO COMMUNICATE"
	"14"	"PHONE LINE TROUBLE"
"15"	RESERVED	

Location 004: Special Timing For Output 1 Operation

Programming a "1" in location 004 will cause Output #1 to time in two minute increments from 2 to 30 minutes. Programming a "2" in location 004 will cause this output to latch until a valid code is entered. Factory default for this location is "0", disabled.

Location 005: Special Conditions For Output 1 Operation

Programming a "1" in location 005 will cause Output #1 to be normally energized. In this situation it will de-energize for the period of time programmed in location 001 when the event programmed in 002-003 occurs. Programming a "2" in this location will disable Output #1 except during the period between the opening time programmed in locations 008-011 and the closing time programmed in locations 012-015. Programming a "4" in this location will cause Output #1 to be disabled except during the period between the closing time programmed in locations 012-015 and the opening time programmed in locations 008-011.

Location 006: Programming Output 1 For Closed Saturday

Programming a "1" in location 006 will not allow opening activation on Saturdays. Factory default for this location is "0", disabled.

Location 007: Programming Output 1 For Closed Sunday

Programming a "1" in location 007 will not allow opening activation on Sundays. Factory default for this location is "0", disabled.

Locations 008-011: Programming Output 1 Opening time

When using Output 1 with a "2" or a "4" programmed in location 005, or when Category 15/Event 10 or Event 11 is selected, these locations determine the time of day for Opening. The time is entered in 24 hour military time beginning with location 008. For example, to enter an opening time of 8:15 am (08:00), program a "0" in location 008, an "8" in location 009, a "1" in location 010, and a "5" in location 011. Factory default is "0-6-0-0" or 6:00 am.

Locations 012-015: Programming Output 1 Closing Time

When using Output 1 with a "2" or "4" programmed in location 005, or when Category 15/Event 10 or Event 11 is selected, these locations determine the time of day for Closing. Time is entered in 24 hour military time beginning with location 012. For example, to enter a closing time of 9:15 pm (21:15), program a "2" in location 012, a "1" in location 013, a "1" in location 014, and a "5" in location 015. Factory default is "2-0-0-0" or 8:00 pm.

Locations 016-255: Refer To Programming Worksheet

PROGRAMMING USER CODES TO ACTIVATE OUTPUTS

Locations 256 thru 375 contain the locations to program activation of outputs by entering user codes 1 thru 30. The following locations describe the programming for user code 1 activation of outputs. The remaining user code activation locations can be addressed by referring to the programming worksheet in the back of this manual.

Location 256: Programming User Code 1 to Activate Outputs 1-4

When output 1 thru 4 is programmed for Category 14 (activation on code entry), location 256 is used to enable activation of these outputs when user code 1 is entered. To enable activation of these outputs, refer the following table, and program the appropriate data for this location:

DATA	OUTPUTS ACTIVATED
1	OUTPUT 1
2	OUTPUT 2
3	OUTPUT 1, AND 2
4	OUTPUT 3
5	OUTPUT 1 AND 3
6	OUTPUT 2 AND 3
7	OUTPUT 1, 2, AND 3
8	OUTPUT 4
9	OUTPUT 1 AND 4
10	OUTPUT 2 AND 4
11	OUTPUT 1, 2 AND 4
12	OUTPUT 3 AND 4
13	OUTPUT 1, 3 AND 4
14	OUTPUT 2, 3 AND 4
15	OUTPUT 1, 2, 3 AND 4

Location 257: Programming User Code 1 For Activation Of Outputs 5-8

When outputs 5 thru 8 are programmed for Category 14 (activation on code entry), location 257 is used to enable activation of these outputs when user code 1 is entered. To enable activation of these outputs, refer the following table, and program the appropriate data for this location:

DATA	OUTPUTS ACTIVATED
1	OUTPUT 5
2	OUTPUT 6
3	OUTPUT 5, AND 6
4	OUTPUT 7
5	OUTPUT 5 AND 7
6	OUTPUT 6 AND 7
7	OUTPUT 5, 6, AND 7
8	OUTPUT 8
9	OUTPUT 5 AND 8
10	OUTPUT 6 AND 8
11	OUTPUT 5, 6 AND 8
12	OUTPUT 7 AND 8
13	OUTPUT 5, 7 AND 8
14	OUTPUT 6, 7 AND 8
15	OUTPUT 5, 6, 7 AND 8

Location 258: Programming User Code 1 For Activation Of Outputs 9-12 (9016)

When outputs 9 thru 12 are programmed for Category 14 (activation on code entry), location 258 is used to enable activation of these outputs when user code 1 is entered. To enable activation of these outputs, refer the following table, and program the appropriate data for this location:

DATA	OUTPUTS ACTIVATED
1	OUTPUT 9
2	OUTPUT 10
3	OUTPUT 9 AND 10
4	OUTPUT 11
5	OUTPUT 9 AND 11
6	OUTPUT 10 AND 11
7	OUTPUT 9, 10, AND 11
8	OUTPUT 12
9	OUTPUT 9 AND 12
10	OUTPUT 10 AND 12
11	OUTPUT 9, 10 AND 12
12	OUTPUT 11 AND 12
13	OUTPUT 9, 11 AND 12
14	OUTPUT 10, 11 AND 12
15	OUTPUT 9, 10, 11 AND 12

Location 259: Programming User Code 1 for activation of Outputs 13-16 (9016)

When outputs 13 thru 16 are programmed for Category 14 (activation on code entry), location 259 is used to enable activation of these outputs when user code 1 is entered. To enable activation of these outputs, refer the following table, and program the appropriate data for this location:

DATA	OUTPUTS ACTIVATED
1	OUTPUT 13
2	OUTPUT 14
3	OUTPUT 13 AND 14
4	OUTPUT 15
5	OUTPUT 13 AND 15
6	OUTPUT 14 AND 15
7	OUTPUT 13, 14, AND 15
8	OUTPUT 16
9	OUTPUT 13 AND 16
10	OUTPUT 14 AND 16
11	OUTPUT 13, 14 AND 16
12	OUTPUT 15 AND 16
13	OUTPUT 13, 15 AND 16
14	OUTPUT 14, 15 AND 16
15	OUTPUT 13, 14, 15 AND 16

**Locations 260-375: User Codes 2 Thru 30 Activation Of Outputs
(Refer To Programming Worksheet At Back Of Manual)**

PROGRAMMING WORKSHEETS

LOCATION	PAGE	DESCRIPTION	DATA	DATA	DATA	DATA	"DEFAULT"
000-003		OUTPUT 1 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 0"
004		OUTPUT 1 SPECIAL TIMING					"0"
005		OUTPUT 1 SPECIAL CONDITIONS					"0"
006		OUTPUT 1 CLOSED SATURDAY					"0"
007		OUTPUT 1 CLOSED SUNDAY					"0"
008-011		OUTPUT 1 OPENING TIME					"0 - 6 - 0 - 0"
012-015		OUTPUT 1 CLOSING TIME					"2 - 0 - 0 - 0"
016-019		OUTPUT 2 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 1"
020		OUTPUT 2 SPECIAL TIMING					"0"
021		OUTPUT 2 SPECIAL CONDITIONS					"0"
022		OUTPUT 2 CLOSED SATURDAY					"0"
023		OUTPUT 2 CLOSED SUNDAY					"0"
024-027		OUTPUT 2 OPENING TIME					"0 - 6 - 0 - 0"
028-031		OUTPUT 2 CLOSING TIME					"2 - 0 - 0 - 0"
032-035		OUTPUT 3 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 2"
036		OUTPUT 3 SPECIAL TIMING					"0"
037		OUTPUT 3 SPECIAL CONDITIONS					"0"
038		OUTPUT 3 CLOSED SATURDAY					"0"
039		OUTPUT 3 CLOSED SUNDAY					"0"
040-043		OUTPUT 3 OPENING TIME					"0 - 6 - 0 - 0"
044-047		OUTPUT 3 CLOSING TIME					"2 - 0 - 0 - 0"
048-051		OUTPUT 4 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 3"
052		OUTPUT 4 SPECIAL TIMING					"0"
053		OUTPUT 4 SPECIAL CONDITIONS					"0"
054		OUTPUT 4 CLOSED SATURDAY					"0"
055		OUTPUT 4 CLOSED SUNDAY					"0"
056-059		OUTPUT 4 OPENING TIME					"0 - 6 - 0 - 0"
060-063		OUTPUT 4 CLOSING TIME					"2 - 0 - 0 - 0"
064-067		OUTPUT 5 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 4"
068		OUTPUT 5 SPECIAL TIMING					"0"
069		OUTPUT 5 SPECIAL CONDITIONS					"0"
070		OUTPUT 5 CLOSED SATURDAY					"0"
071		OUTPUT 5 CLOSED SUNDAY					"0"
072-075		OUTPUT 5 OPENING TIME					"0 - 6 - 0 - 0"
076-079		OUTPUT 5 CLOSING TIME					"2 - 0 - 0 - 0"
080-083		OUTPUT 6 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 5"
084		OUTPUT 6 SPECIAL TIMING					"0"
085		OUTPUT 6 SPECIAL CONDITIONS					"0"
086		OUTPUT 6 CLOSED SATURDAY					"0"
087		OUTPUT 6 CLOSED SUNDAY					"0"
088-091		OUTPUT 6 OPENING TIME					"0 - 6 - 0 - 0"
092-095		OUTPUT 6 CLOSING TIME					"2 - 0 - 0 - 0"
096-099		OUTPUT 7 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 6"
100		OUTPUT 7 SPECIAL TIMING					"0"
101		OUTPUT 7 SPECIAL CONDITIONS					"0"
102		OUTPUT 7 CLOSED SATURDAY					"0"
103		OUTPUT 7 CLOSED SUNDAY					"0"
104-107		OUTPUT 7 OPENING TIME					"0 - 6 - 0 - 0"
108-111		OUTPUT 7 CLOSING TIME					"2 - 0 - 0 - 0"

LOCATION	PAGE	DESCRIPTION	DATA	DATA	DATA	DATA	"DEFAULT"
112-115		OUTPUT 8 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 7"
116		OUTPUT 8 SPECIAL TIMING					"0"
117		OUTPUT 8 SPECIAL CONDITIONS					"0"
118		OUTPUT 8 CLOSED SATURDAY					"0"
119		OUTPUT 8 CLOSED SUNDAY					"0"
120-123		OUTPUT 8 OPENING TIME					"0 - 6 - 0 - 0"
124-127		OUTPUT 8 CLOSING TIME					"2 - 0 - 0 - 0"
128-131		OUTPUT 9 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 8"
132		OUTPUT 9 SPECIAL TIMING					"0"
133		OUTPUT 9 SPECIAL CONDITIONS					"0"
134		OUTPUT 9 CLOSED SATURDAY					"0"
135		OUTPUT 9 CLOSED SUNDAY					"0"
136-139		OUTPUT 9 OPENING TIME					"0 - 6 - 0 - 0"
140-143		OUTPUT 9 CLOSING TIME					"2 - 0 - 0 - 0"
144-147		OUTPUT 10 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 9"
148		OUTPUT 10 SPECIAL TIMING					"0"
149		OUTPUT 10 SPECIAL CONDITIONS					"0"
150		OUTPUT 10 CLOSED SATURDAY					"0"
151		OUTPUT 10 CLOSED SUNDAY					"0"
152-155		OUTPUT 10 OPENING TIME					"0 - 6 - 0 - 0"
156-159		OUTPUT 10 CLOSING TIME					"2 - 0 - 0 - 0"
160-163		OUTPUT 11 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 10"
164		OUTPUT 11 SPECIAL TIMING					"0"
165		OUTPUT 11 SPECIAL CONDITIONS					"0"
166		OUTPUT 11 CLOSED SATURDAY					"0"
167		OUTPUT 11 CLOSED SUNDAY					"0"
168-171		OUTPUT 11 OPENING TIME					"0 - 6 - 0 - 0"
172-175		OUTPUT 11 CLOSING TIME					"2 - 0 - 0 - 0"
176-179		OUTPUT 12 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 11"
180		OUTPUT 12 SPECIAL TIMING					"0"
181		OUTPUT 12 SPECIAL CONDITIONS					"0"
182		OUTPUT 12 CLOSED SATURDAY					"0"
183		OUTPUT 12 CLOSED SUNDAY					"0"
184-187		OUTPUT 12 OPENING TIME					"0 - 6 - 0 - 0"
188-191		OUTPUT 12 CLOSING TIME					"2 - 0 - 0 - 0"
192-195		OUTPUT 13 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 12"
196		OUTPUT 13 SPECIAL TIMING					"0"
197		OUTPUT 13 SPECIAL CONDITIONS					"0"
198		OUTPUT 13 CLOSED SATURDAY					"0"
199		OUTPUT 13 CLOSED SUNDAY					"0"
200-203		OUTPUT 13 OPENING TIME					"0 - 6 - 0 - 0"
204-207		OUTPUT 13 CLOSING TIME					"2 - 0 - 0 - 0"
208-211		OUTPUT 14 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 13"
212		OUTPUT 14 SPECIAL TIMING					"0"
213		OUTPUT 14 SPECIAL CONDITIONS					"0"
214		OUTPUT 14 CLOSED SATURDAY					"0"
215		OUTPUT 14 CLOSED SUNDAY					"0"
216-219		OUTPUT 14 OPENING TIME					"0 - 6 - 0 - 0"
220-223		OUTPUT 14 CLOSING TIME					"2 - 0 - 0 - 0"

LOCATION	PAGE	DESCRIPTION	DATA	DATA	DATA	DATA	"DEFAULT"
224-227		OUTPUT 15 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 14"
228		OUTPUT 15 SPECIAL TIMING					"0"
229		OUTPUT 15 SPECIAL CONDITIONS					"0"
230		OUTPUT 15 CLOSED SATURDAY					"0"
231		OUTPUT 15 CLOSED SUNDAY					"0"
232-235		OUTPUT 15 OPENING TIME					"0 - 6 - 0 - 0"
236-239		OUTPUT 15 CLOSING TIME					"2 - 0 - 0 - 0"
240-243		OUTPUT 16 SOURCE/TIME/CATEGORY/EVENT					"15 - 5 - 10 - 15"
244		OUTPUT 16 SPECIAL TIMING					"0"
245		OUTPUT 16 SPECIAL CONDITIONS					"0"
246		OUTPUT 16 CLOSED SATURDAY					"0"
247		OUTPUT 16 CLOSED SUNDAY					"0"
248-251		OUTPUT 16 OPENING TIME					"0 - 6 - 0 - 0"
252-255		OUTPUT 16 CLOSING TIME					"2 - 0 - 0 - 0"
256		USER CODE 01 ACTIVATE OUTPUT 1 - 4					"15"
257		USER CODE 01 ACTIVATE OUTPUT 5 - 8					"15"
258		USER CODE 01 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
259		USER CODE 01 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
260		USER CODE 02 ACTIVATE OUTPUT 1 - 4					"15"
261		USER CODE 02 ACTIVATE OUTPUT 5 - 8					"15"
262		USER CODE 02 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
263		USER CODE 02 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
264		USER CODE 03 ACTIVATE OUTPUT 1 - 4					"15"
265		USER CODE 03 ACTIVATE OUTPUT 5 - 8					"15"
266		USER CODE 03 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
267		USER CODE 03 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
268		USER CODE 04 ACTIVATE OUTPUT 1 - 4					"15"
269		USER CODE 04 ACTIVATE OUTPUT 5 - 8					"15"
270		USER CODE 04 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
271		USER CODE 04 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
272		USER CODE 05 ACTIVATE OUTPUT 1 - 4					"15"
273		USER CODE 05 ACTIVATE OUTPUT 5 - 8					"15"
274		USER CODE 05 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
275		USER CODE 05 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
276		USER CODE 06 ACTIVATE OUTPUT 1 - 4					"15"
277		USER CODE 06 ACTIVATE OUTPUT 5 - 8					"15"
278		USER CODE 06 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
279		USER CODE 06 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
280		USER CODE 07 ACTIVATE OUTPUT 1 - 4					"15"
281		USER CODE 07 ACTIVATE OUTPUT 5 - 8					"15"
282		USER CODE 07 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
283		USER CODE 07 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
284		USER CODE 08 ACTIVATE OUTPUT 1 - 4					"15"
285		USER CODE 08 ACTIVATE OUTPUT 5 - 8					"15"
286		USER CODE 08 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
287		USER CODE 08 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
288		USER CODE 09 ACTIVATE OUTPUT 1 - 4					"15"
289		USER CODE 09 ACTIVATE OUTPUT 5 - 8					"15"
290		USER CODE 09 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
291		USER CODE 09 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"

LOCATION	PAGE	DESCRIPTION	DATA	DATA	DATA	DATA	"DEFAULT"
292		USER CODE 10 ACTIVATE OUTPUT 1 - 4					"15"
293		USER CODE 10 ACTIVATE OUTPUT 5 - 8					"15"
294		USER CODE 10 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
295		USER CODE 10 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
296		USER CODE 11 ACTIVATE OUTPUT 1 - 4					"15"
297		USER CODE 11 ACTIVATE OUTPUT 5 - 8					"15"
298		USER CODE 11 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
299		USER CODE 11 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
300		USER CODE 12 ACTIVATE OUTPUT 1 - 4					"15"
301		USER CODE 12 ACTIVATE OUTPUT 5 - 8					"15"
302		USER CODE 12 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
303		USER CODE 12 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
304		USER CODE 13 ACTIVATE OUTPUT 1 - 4					"15"
305		USER CODE 13 ACTIVATE OUTPUT 5 - 8					"15"
306		USER CODE 13 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
307		USER CODE 13 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
308		USER CODE 14 ACTIVATE OUTPUT 1 - 4					"15"
309		USER CODE 14 ACTIVATE OUTPUT 5 - 8					"15"
310		USER CODE 14 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
311		USER CODE 14 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
312		USER CODE 15 ACTIVATE OUTPUT 1 - 4					"15"
313		USER CODE 15 ACTIVATE OUTPUT 5 - 8					"15"
314		USER CODE 15 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
315		USER CODE 15 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
316		USER CODE 16 ACTIVATE OUTPUT 1 - 4					"15"
317		USER CODE 16 ACTIVATE OUTPUT 5 - 8					"15"
318		USER CODE 16 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
319		USER CODE 16 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
320		USER CODE 17 ACTIVATE OUTPUT 1 - 4					"15"
321		USER CODE 17 ACTIVATE OUTPUT 5 - 8					"15"
322		USER CODE 17 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
323		USER CODE 17 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
324		USER CODE 18 ACTIVATE OUTPUT 1 - 4					"15"
325		USER CODE 18 ACTIVATE OUTPUT 5 - 8					"15"
326		USER CODE 18 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
327		USER CODE 18 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
328		USER CODE 19 ACTIVATE OUTPUT 1 - 4					"15"
329		USER CODE 19 ACTIVATE OUTPUT 5 - 8					"15"
330		USER CODE 19 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
331		USER CODE 19 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
332		USER CODE 20 ACTIVATE OUTPUT 1 - 4					"15"
333		USER CODE 20 ACTIVATE OUTPUT 5 - 8					"15"
334		USER CODE 20 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
335		USER CODE 20 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
336		USER CODE 21 ACTIVATE OUTPUT 1 - 4					"15"
337		USER CODE 21 ACTIVATE OUTPUT 5 - 8					"15"
338		USER CODE 21 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
339		USER CODE 21 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"

LOCATION	PAGE	DESCRIPTION	DATA	DATA	DATA	DATA	"DEFAULT"
340		USER CODE 22 ACTIVATE OUTPUT 1 - 4					"15"
341		USER CODE 22 ACTIVATE OUTPUT 5 - 8					"15"
342		USER CODE 22 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
343		USER CODE 22 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
344		USER CODE 23 ACTIVATE OUTPUT 1 - 4					"15"
345		USER CODE 23 ACTIVATE OUTPUT 5 - 8					"15"
346		USER CODE 23 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
347		USER CODE 23 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
348		USER CODE 24 ACTIVATE OUTPUT 1 - 4					"15"
349		USER CODE 24 ACTIVATE OUTPUT 5 - 8					"15"
350		USER CODE 24 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
351		USER CODE 24 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
352		USER CODE 25 ACTIVATE OUTPUT 1 - 4					"15"
353		USER CODE 25 ACTIVATE OUTPUT 5 - 8					"15"
354		USER CODE 25 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
355		USER CODE 25 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
356		USER CODE 26 ACTIVATE OUTPUT 1 - 4					"15"
357		USER CODE 26 ACTIVATE OUTPUT 5 - 8					"15"
358		USER CODE 26 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
359		USER CODE 26 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
360		USER CODE 27 ACTIVATE OUTPUT 1 - 4					"15"
361		USER CODE 27 ACTIVATE OUTPUT 5 - 8					"15"
362		USER CODE 27 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
363		USER CODE 27 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
364		USER CODE 28 ACTIVATE OUTPUT 1 - 4					"15"
365		USER CODE 28 ACTIVATE OUTPUT 5 - 8					"15"
366		USER CODE 28 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
367		USER CODE 28 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
368		USER CODE 29 ACTIVATE OUTPUT 1 - 4					"15"
369		USER CODE 29 ACTIVATE OUTPUT 5 - 8					"15"
370		USER CODE 29 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
371		USER CODE 29 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"
372		USER CODE 30 ACTIVATE OUTPUT 1 - 4					"15"
373		USER CODE 30 ACTIVATE OUTPUT 5 - 8					"15"
374		USER CODE 30 ACTIVATE OUTPUT 9 - 12 (9016 ONLY)					"15"
375		USER CODE 30 ACTIVATE OUTPUT 13 - 16 (9016 ONLY)					"15"

WARRANTY STATEMENT

CADDX CONTROLS, INC. GUARANTEES THIS PRODUCT AGAINST DEFECTIVE PARTS AND WORKMANSHIP FOR TWENTY-FOUR (24) MONTHS FROM DATE OF MANUFACTURING. IF ANY DEFECT APPEARS DURING THE WARRANTY PERIOD RETURN IT TO CADDX, POSTAGE PREPAID. THE UNIT WILL BE REPAIRED AND RETURNED.

FOR THE REMAINING 36 MONTHS OF WARRANTY, THE UNIT WILL BE REPAIRED FOR A FEE NOT TO EXCEED \$10.00 PLUS SHIPPING AND HANDLING.

CADDX ASSUMES NO LIABILITY FOR CONSEQUENTIAL OR INDIRECT DAMAGE AND ACCEPTS NO RESPONSIBILITY FOR REPAIRING DAMAGE TO THE PRODUCT CAUSED BY MISUSE, CARELESS HANDLING, OR WHERE REPAIRS HAVE BEEN MADE BY OTHERS.

NO OTHER GUARANTEE, WRITTEN OR VERBAL, IS AUTHORIZED BY OR ON BEHALF OF CADDX CONTROLS, INC., GLADEWATER, TEXAS.

**CADDX CONTROLS, INC.
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GLADEWATER, TX 75647
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