CHAPTER 11 Configuration (CSC keypad, level 3 password)

Menu options available under this level of access are:

LEVEL 1	HISTORY:	ALARM, EVENT, ZONE, CURRENT
	PASSWORD:	(ENTRY)
	SPECIAL:	LEVELS, SETTIME
LEVEL 2	ENABLE / DISABLE:	ZONES, DEVICES, CIRCUITS, COMMUNICATION
	SPECIAL:	SENSE, RESET, HI-LO LEVELS, WALKTEST
	DIAGNOSTICS	
LEVEL 3	**CONFIG:**	**DEVICES, ZONES, SYSTEM, LEARN, TO DEV, SPECIAL**
	SYSTEM:	**I/O CKT, MESSAGE, PATTERN, TIME GRP**
	SPECIAL:	**CAL SEN, TIMEOUT, ERRCHK, DEV ADDR, CAL TIME**

11.1 LEVEL 3 PASSWORD OPERATION

Level 3 password allows access to system configuration along with lower priority tasks per previous chapters. Level 3 password entry method is per Section 5.3. Access to all menu functions is via the main menu options below.

This chapter describes system configuration using the capabilities integrated in the CSC Controller. Configuring the system via the external Cheetah Tracker program is described in a separate manual.

Pressing F6 from the Main Menu accesses the “Configuration Display” where specific configuration options can be accessed. Upon entry to CONFIG menu the panel records a trouble event “CONFIG MENU ACCESSED” which can be cleared by RESET only.

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	1	-	H	I	S	T	O	R	Y		4	-	E	N	A	B	L	E		
B	2	-	P	A	S	S	W	R	D		5	-								
C	3	-	S	P	E	C	I	A	L		6	-	C	O	N	F	I	G		
D	S	E	L	E	C	T		F	U	N	C	T	I	O	N		K	E	Y	

F1	HISTORY (H)	F4	ENABLE/DISABLE (E)LEVEL2
F2	PASSWORD (A)	F5	
F3	SPECIAL (P)	F6	CONFIGURATION (C)LEVEL 3
ESC	RETURN TO SYS MSG (1)	ENT	
⇐		⇒	
# 's		HLP	

11.2 CONFIGURATION MENU OPTIONS

The Configuration display allows configuration of:

F1- Devices;	Setup of devices on the loop.	Section 11.3
F2- Zones;	Setup of zone types.	Section 11.4
F3- System;	Setup power, timebase parameters, CSC circuits, etc.	Section 11.5
F4- Learn;	Special modes to self learn devices.	Section 11.6
F5- To Dev.;	To download configuration data to devices.	Section 11.7
F6- Special;	Specials including address set, calibration, etc.	Section 11.8

CONFIGURATION (C)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	1	-	D	E	V	I	C	E	S		4	-	L	E	A	R	N			
B	2	-	Z	O	N	E	S				5	-	T	O		D	E	V		
C	3	-	S	Y	S	T	E	M			6	-	S	P	E	C	I	A	L	
D	S	E	L	E	C	T		F	U	N	C	T	I	O	N		K	E	Y	

F1	DEVICE CONFIG (C1)	F4	SELF-LEARN (C4)
F2	ZONE CONFIG (C2)	F5	DOWNLOAD TO DEV. (C5)
F3	SYSTEM VARIABLES(C3)	F6	SPECIAL (C6)
ESC	RETURN (M)	ENT	
⇐		⇒	
# 's		HLP	

11.3 CONFIGURE DEVICES

11.3.1 Configure Device Video Information

Pressing F1 from the Configuration video allows access to the device configuration display. It supports entry and storage of device configurations into CSC Controller memory. The display’s

third and fourth lines differ depending upon the "device type" selected in the display top line. Configuration requires selection of loop number and address in the display upper left using data entry, F1, and F2 keys. Next, with the cursor in the display top center, use F1 and F2 to cycle through the displays of device types allowed.

11.3.2 Photo, Ion, & Heat Sensors
11.3.3 FRCM Inputs
11.3.4 SRM Outputs
11.3.5 SOM Outputs
11.3.6 R2M Outputs

All devices require entry of configuration data on this primary display. After completion, assignment of zones is required using the F2 key to access the "Zone Assignment" display as described in 11.3.2.2. Devices can be assigned up to 32 zones so multiple "zone entry" displays are often required.

Usually, many devices shall have very similar configurations. Setup of one device (of each type), then use of the device copy display per 11.3.2.3 is an efficient method to configure such systems. Likewise, use of the F6 key to enter a default message for each device can be efficient.

After entry of all output device configurations (SOM, SRM & R2M), the "To Device" display on the main configuration video is used to download the configurations to the individual devices.

ADDRESSABLE DEVICE CONFIG (C1)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	1	-	H	I	S	T	O	R	Y		4	-	E	N	A	B	L	E		
B	2	-	P	A	S	S	W	R	D		5	-								
C	3	-	S	P	E	C	I	A	L		6	-	C	O	N	F	I	G		
D	S	E	L	E	C	T		F	U	N	C	T	I	O	N		K	E	Y	

F1	HISTORY (H)	F4	ENABLE/DISABLE (E)LEVEL2
F2	PASSWORD (A)	F5	
F3	SPECIAL (P)	F6	CONFIGURATION (C)LEVEL 3
ESC	RETURN TO SYS MSG (1)	ENT	
⇐		⇒	
# 's		HLP	

A1 = LOOP NUMBER (CYCLE WITH F1 & F4)
A3-5 = ADDRESS (EDITABLE VIA NUMERIC KEYS, CYCLE WITH F1 & F4)
A7-12 = DEVICE TYPE (CYCLE WITH F1 & F4). USE BLANK TYPE "——" TO DELETE DEVICE.
A14-20 = FUNCTION (CYCLE WITH F1 & F4: FUNCTIONS ARE ALLOWED PER DEVICE TYPE).

11.3.2 Photo, Ion, & Heat Sensors

11.3.2.1 Sensor Configuration Video

IF SENSOR TYPE (SMOKE OR HEAT) (C1A)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Y	-	X	X	X		T	T	T	T	T	T		F	F	F	F	F	F	F
B	C	U	S	T	O	M		M	E	S	S	A	G	E	.	.	.	.	.	.
C	S	1	<	S	2	<	P	1	<	P	2	<	A	V		T	B		D	E
D	X	X		X	X		X	X		X	X		X	X		X	X		X	X

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	ZONE ASSIGNMENT(C12)	F5	TO DEFAULT CONFIG (C15)
F3	COPY ADDRESS (C13)	F6	DEFAULT MESSAGES
ESC	RETURN (C)	ENT	ACCEPT CHANGE
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	HELP (HL - C1)

A1-5 = LOOP NUMBER /ADDRESS
A7-11 = DEVICE TYPE (ION, PHOTO, HEAT)
A12 = TYPE OF PHOTO (L = LOW AIR VELOCITY, H = HIGH AIR VELOCITY)
A14-20 = FUNCTION {= DETECT}
B1-20 = DEVICE CUSTOM MESSAGE (EDIT BY NUMERIC KEY PAD) F6 = DEFAULT
C9 = PREALARM1 ENABLED (<)/DISABLED ( )
C12 = PREALARM2 ENABLED (<)/DISABLED ( )
D1-2 = ALARM SENSITIVITY LEVEL1 (DEFAULT = 25)
D4-5 = ALARM SENSITIVITY LEVEL2 (TYPICALLY FOR DAY OPERATION)DEFAULT = 25D7-11 = PRE-ALARM1 & PRE-ALARM 2 SENSITIVITY LEVELS DEFAULT = 25
D13-14 = ALARM VERIFICATION DELAY. (NO, 10-60 SECS; FOR NON-RELEASING SENSORS ONLY).
D16-17 = TIME BASE CONTROL GROUP. (00= OFF OR 1-15) USES S2 ALARM SENSITIVITY
D19 = DRIFT COMPENSATION (Y/N). (F1 OR F4 TO TOGGLE WITH CURSOR @ C19)
D20 = ENABLE STATUS (E/D). (F1 OR F4 TO TOGGLE WITH CURSOR @ C20)

11.3.2.2 Device Zone Assignments (F2 from Configuration Menu Options)

DEVICE ZONE ASSIGNMENTS (C1A2) -FOUR SCREENS TO ALLOW 32 ZONES

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Y	-	X	X	X		T	T	T	T	T	T		F	F	F	F	F	F	F
B																				
C	Z	Z	Z		Z	Z	Z		Z	Z	Z		Z	Z	Z		Z	Z	Z	
D	Z	Z	Z		Z	Z	Z		Z	Z	Z		Z	Z	Z		Z	Z	Z	

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	NEXT ZONE GROUP	F5	TO DEFAULT CONFIG (C15)
F3	COPY ADDRESS (C13)	F6	
ESC	RETURN (C1A)	ENT	ACCEPT CHANGES (C1A)
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	HELP (HL - C1A)

A1-5 = LOOP NUMBER/ ADDRESS
A7-20 = DEVICE TYPE/ DEVICE FUNCTION
B1-20 = DEVICE CUSTOM MESSAGE
C1-D20= ZONE ASSIGNMENTS (EDIT BY NUMERIC KEYPAD OR F1, F4)
Note: UP TO 32 ZONES ALLOWED; F2 CYCLES THRU OTHER ZONE SCREENS.
--- WILL BLANK OUT ZONES IN HIGHER POSITIONS, INSTALL A ZONE NUMBER AGAIN AND THE ZONES PREVIOUSLY THERE WILL REAPPEAR.

11.3.2.3 Addressable Device Copy (F3 from Main Device Menu (C1)

ADDRESSABLE DEVICE COPY (C1A3)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Y	-	X	X	X		T	T	T	T	T	T		F	F	F	F	F	F	F
B		C	O	P	Y		A	L	L		C	O	N	F	I	G		T	O	:
C	Y	-	X	X	X															
D		P	R	E	S	S		E	N	T	E	R		T	O		C	O	P	Y

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2		F5	
F3		F6	
ESC	RETURN (C1A)	ENT	PERFORM COPY
⇐	LEFT	⇒	RIGHT
# 's	ADDR DATA ENTRY	HLP	HELP (HL - C1A3)

A1-5 = LOOP/ ADDRESS NUMBER OF DEVICE WITH PERTINENT DATA FOR COPY FROM.
A7-20 = DEVICE TYPE / DEVICE FUNCTION
C1-5 = LOOP/ ADDRESS NUMBER OF DEVICE TO COPY CONFIG DATA TO.

11.3.2.4 Addressable Device Default Config

DEFAULT CONFIG (C15)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	P	R	E	S	S		E	N	T	E	R		T	O		S	T	O	R	E
B	D	E	F	A	U	L	T		C	O	N	F	I	G		F	O	R		
C	P	H	O	T	O		D	E	V	I	C	E	S							
D																				

F1		F4	
F2		F5	
F3		F6	
ESC	RETURN (C1)	ENT	STORE TO DEFAULT
⇐		⇒	
# 's		HLP	HELP (HL - C15)

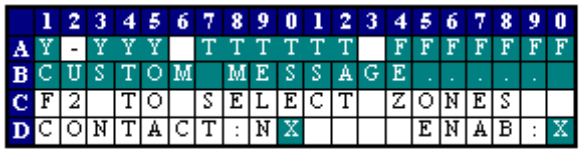
PRESS ENTER TO STORE THE CONFIGURATION OF THIS DEVICE INTO THE DEFAULT CONFIGURATION.
DEFAULT CONFIGURATIONS FOR EACH DEVICE FROM THE FACTORY ARE SET TO:

PHOTO:	Z1, S1, S2, P1, P2 = 25	AV = NO	TB = 00	D = Y	E = E
ION:	Z1, S1, S2, P1, P2 = 80	AV = 0	TB = 00	D = Y`	E = E
HEAT:	Z1, S1, S2, P1, P2 = 40	AV = 0	TB = 00	D = Y	E = E
FRCM:	Z1, MANALRM, NO, E				
SOM:	MESSAGEZONE 1, WALKTEST = E, DEVICE ENABLED, INDEX 0 = ALRM, Z1, PTI, S=Y, INDEX 1-15 = NONE				
SRM:	Z1, 24V SOL, NO STATE	ENAB: D	TIME: CONTIN		
R2M:	MESSAGE ZONE 1, WALKTEST ENABLED, DEVICE ENABLED, INDEX 0 = ALARM ZONE 1	R1 = Y	R2 = Y	0 = 0	
	INDEXES 1-15 = NONE	R1 = N	R2 = N	0 = 0	

Note: If the learn function is used the default config is loaded for the device.

11.3.3 FRCM Input Contact Monitoring Devices

IF CONTACT MONITORING (FRCM)TYPE (C1B)



F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	ZONE ASSIGNMENT(C1A2)	F5	DEFAULT CONFIG (C15)
F3	COPY ADDRESS (C1A3)	F6	DEFAULT MESSAGE
ESC	RETURN (C)	ENT	ACCEPT CHANGE (C1)
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	HELP (HL - C1)

A1-5 = LOOP NUMBER / ADDRESS
A7-12 = DEVICE TYPE {=FRCM}
A14-20 = FUNCTION (MANREL, ABORT, RESET, DETECT, MANALRM, WATERFL, SUPER, (NONE LATCHING), PROCESS, DRILL, TROUBLE, REL-WCT, ZNE-DIS, SILENCE SUPER-L) (LATCHING)
B1-20 = DEVICE CUSTOM MESSAGE (EDIT BY NUMERIC KEYPAD)
F6 FOR DEFAULT MESSAGE
D10 = CONTACT TYPE: (NO OR NC) {NORMALLY OPEN OR NORMALLY CLOSED}

NO ONLY	NO/NC
REL-WCT	DRILL
DETECT	TROUBLE
MANALRM	SUPER
WATERFL	PROCESS
MANREL	ZONE-DIS
ABORT	SILENCE
RESET	SUPER-L

D20 = DEVICE ENABLED/DISABLED (E/D)

From this display, zones can be assigned via F2 per 11.3.2.2 description.

11.3.4 SRM Releasing Output Devices

IF ARM/SOLENOID (SRM) TYPE (C1C)

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	ZONE ASSIGNMENT(C1A2)	F5	DEFAULT CONFIG (C15)
F3	COPY ADDRESS(C1A3)	F6	DEFAULT MESSAGE
ESC	RETURN (C)	ENT	ACCEPT CHANGE (C1)
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	HELP (HL - C1)

A1-5 = LOOP NUMBER / ADDRESS
A7-11 = DEVICE TYPE {=SRM}
A17-20 = ACTIVATION STATE (ALRM, PRED, RELE, WMST) {LATCHING STATES}
B1-20 = DEVICE CUSTOM MESSAGE (EDIT BY NUMERIC KEYPAD)
F6 FOR DEFAULT MESSAGE
C15-20 = FUNCTION TYPES (ARM, 12VSOL,24VSOL, CITY T FOR CITY TIE/MASTERBOX) SETS WIRING/SUPERVISION LIMITS
D6-9 = SOLENOID "ON" TIME 1-127 SEC, IN 1 SEC INCREMENTS
10-1270 SEC IN 10 SEC INCREMENTS
CONTIN = CONTINUOUS OPERATION
D20 = DEVICE ENABLED/DISABLED (E/D)

Note: "Solenoid on time" is the duration the solenoid is activated upon entering the release state. Reset of the system over-rides this value. Always use "TO DEV" after completing configuration information on SRM, SOM, & R2M devices.

Note: Each "releasing" zone must have at least one SRM, one manual release and be programmed for the release function. See Section 11.3.3 for programming a manual release input and Section 11.4.1 for programming zone for release function.

Note: When configured for 12VSOL operation, the SRM will output 24V in order to activate 2 12V solenoids in series. Refer to Section 14.7 for wiring diagrams.

11.3.5 SOM Output Devices

11.3.5.1 General SOM & R2M Information.

The SOM and R2M devices are setup to respond in a powerful, event driven manner. Chapter 5 describes these powerful setup features. Setup is accomplished through the following displays.

SOM and R2M devices do not have unique custom messages, rather they are assigned to a zone's custom message. This need not be a zone the device is assigned to (or used in the system). Therefore, with 250 unique zone messages, many options are available.

Note: Use "TO DEV" if CONFIGURATION FAULT is encountered on SRM, SOM, & R2M devices, or if patterns are changed after configuration.

11.3.5.2 SOM Configuration Video

IF SUPERVISED OUTPUT (SOM) TYPE (C1D)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Y	-	Y	Y	Y		T	T	T		M	Z	X	X	X		W	E		D
B	Z	O	N	E		C	U	S	T	O	M		M	E	S	S	A	G	E	
C	I	#		S	T	A	T		Z	N	E		P	T		O		S		R
D	X	X		X	X	X	X		X	X	X		X	X		X		X		X

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	MULTI-ZONE TABLE (C1D2)	F5	TO DEFAULT (C15)
F3	COPY ADDRESS (C1A3)	F6	
ESC	RETURN (C)	ENT	ACCEPT CHANGE (C1)
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	HELP (HL - C1)

A1-5 = LOOP NUMBER / ADDRESS
A7-9 = DEVICE TYPE {=SOM}
A13-15 = POINTER TO ZONE # FOR CUSTOM MESSAGE EDITING.
A17-18 = DEVICE WALK-TESTABLE (WE= ENABLED ,WD=DISABLED)
A20 = DEVICE ENABLED/ DISABLED (E,D)
B1-20 = CUSTOM MESSAGE, SHARED WITH ZONES. SELECT WITH POINTER @ A13-15
D1-2 = PRIORITY TABLE INDEX POSITION (0-15)
D4-7 = STATE FOR PRIORITY TABLE INDEX (NONE, PROCESS, TRB, SUPR, DRLL, ABRT, PAL1, PAL2, ALRM, PRED, RELE, WMST)
D9-11 = ZONE FOR PRIORITY TABLE INDEX (1-240, 255 = ALL ZONE, 254 = MUTLTIZONE)
D13-14 = PATTERN FOR PRIORITY TABLE INDEX (0-15) (See chapter 7.5.4 for programming patterns)
D16 = OP CODE FOR PRIORITY TABLE INDEX (0-3, 0 USED FOR MOST APPLICATIONS) *see below
D18 = SILENCEABLE (Y/N)
D20 = RESOUND AFTER NEW EVENT (Y/N)

*OP CODES:

0 = Use Index number as priority level, ranging from 0 to 15, with 0 being the lowest priority and 15 the highest.
1 = Assigns this index number to have the same priority as the next indext number. (OR)
2 = This index number and the next index number must both be active for the device to use the pattern. (AND) The device uses the pattern of the first index number where the AND begins.
3 = This OP code is used to show the end of an AND function.

11.3.5.3 SOM & R2M Multi-Zone Table Setup. (F2 from Device Screen)

SOM & R2M MULTI-ZONE TABLES (C1D2)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Y	-	Y	Y	Y		S	O	M		Z	N	:	Z	Z	Z	-	Z	Z	Z
B	D	E	V	.		C	U	S	T	O	M		M	E	S	S	A	G	E	
C	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2		F5	
F3	COPY ADDRESS (C1A3)	F6	
ESC	RETURN (C1D or C1E)	ENT	ACCEPT CHANGE
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's		HLP	HELP (HL - C1D2)

A1-5 = LOOP NUMBER / ADDRESS
A7-9 = DEVICE TYPE {= SOM OR R2M)
A14-20 = ZONE GROUP (20 ZONES) DISPLAYED @ D1-D20 ON LOWEST LINE.
B1-20 = DEVICE CUSTOM MESSAGE
D1-20 = INDICATION IF ZONE IS IN MULTI-ZONE TABLE (Y=YES, N= NO)

11.3.6 R2M Relay Devices

IF RELAY (R2M) TYPE (C1E)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Y	-	Y	Y	Y		T	T	T		M	Z	X	X	X		W	E		D
B	Z	O	N	E		C	U	S	T	O	M		M	E	S	S	A	G	E	
C	I	#		S	T	A	T		Z	N	E		R	1		R	2			0
D	X	X		X	X	X	X		X	X	X		X	X		X				X

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	MULTI-ZONE TABLE (C1D2)	F5	TO DEFAULT CONFIG (C15)
F3	COPY ADDRESS (C1A3)	F6	
ESC	RETURN (C)	ENT	ACCEPT CHANGE
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	HELP (HL - C1)

A1-5 = LOOP NUMBER / ADDRESS
A7-9 = DEVICE TYPE {=SOM}
A13-15 = POINTER TO ZONE # FOR CUSTOM MESSAGE EDITING.
A17-18 = DEVICE WALK-TESTABLE (WE= ENABLED ,WD=DISABLED)
A20 = DEVICE ENABLED/ DISABLED (E,D)
B1-20 = CUSTOM MESSAGE, SHARED WITH ZONES. SELECT WITH POINTER @ A13-15
D1-2 = PRIORITY TABLE INDEX POSITION (0-15)
D4-7 = STATE FOR PRIORITY TABLE INDEX (NONE, PROCESS, TRB, SUPR, DRLL, ABRT, PAL1, PAL2, ALRM, PRED, RELE, WMST)
D9-11 = ZONE FOR PRIORITY TABLE INDEX (1-240, 255 = ALL ZONE, 254 = MUTLTIZONE)
D14 = STATUS OF RELAY COIL #1 FOR INDEX POSITION Y = ON N = OFF
D17 = STATUS OF RELAY COIL #2 FOR INDEX POSITION Y = ON N = OFF
D20 = OP CODE FOR PRIORITY TABLE INDEX 0-3, 0 USED FOR MOST APPLICATIONS) *see below

*OP CODES:

0 = Use Index number as priority level, ranging from 0 to 15, with 0 being the lowest priority and 15 the highest.
1 = Assigns this index number to have the same priority as the next indext number. (OR)
2 = This index number and the next index number must both be active for the device to use the pattern. (AND) The device uses the pattern of the first index number where the AND begins.
3 = This OP code is used to show the end of AND function.

11.4 CONFIGURE ZONES

11.4.1 Configure Zone Video Information

Pressing F2 from the Configuration display allows access to the "Zone Configuration" display. It supports entry and storage of zone configurations into CSC Controller memory. The displays third and fourth lines differ depending upon the "zone type" selected in the display top line. Configuration requires selection of zone number in the upper left of the display. Next, with the cursor in the display (A10) top center; use F1 and F2 to cycle through the displays of zone types allowed.

11.4.2 Suppression Zones (SUP) C2A

11.4.3 Alarm-Only Zones (ALM) (C2B)

Zones require configuration data entry on this primary display. Zones often have similar configurations. Setup of one zone (of each type), then use of the 11.4.2.2 zone copy video is an efficient method to configure such systems. Also, use of the F6 key to enter a default message for each zone can be efficient.

Note: Assigning of devices to particular zones is via the device configuration display, not in the Zone Config display of this section.

ZONE CONFIGURATION (C2)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Z	N	E	:	X	X	X		T	T	T	-	F	F	F	F	F	F		
B	C	U	S	T	O	M		M	E	S	S	A	G	E						
C																				
D															E	N	A	B	:	X

F1	DECR. FIELD @ CURSOR	F4	DECR. FIELD @ CURSOR
F2	WMST CYCLE (C22)	F5	
F3	COPY ZONE DATA (C2A3)	F6	DEFAULT MESSAGE
ESC	RETURN (C)	ENT	
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	HELP (HL - C2)

SELECTING TYPE ADVANCES TO EITHER C2A OR C2B SCREEN.
A5-7 = ZONE NUMBER (EDIT BY NUMERIC KEYPAD) ZONES 1 - 240 EDITABLE
A9-11 = ZONE TYPE (SUP, ALM)
A13-18 = ZONE DETECTION FUNCTION (SUP = COUNTZ, CROSSZ, SINREL/ALM = ALARM
B1-20 = ZONE CUSTOM MESSAGE (EDIT BY NUMERIC KEYPAD) F6 FOR DEFAULT
D = ENABLED (E) DISBLED (D)

11.4.2 Suppression Zones

11.4.2.1 Suppression Zone configuration

IF SUPPRESSION ZONE TYPE (C2A)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Z	N	E	:	X	X	X		T	T	T	-	F	F	F	F	F	F		
B	C	U	S	T	O	M		M	E	S	S	A	G	E	-	-	-	-	-	-
C	D	E	L	A	Y		M	A	N	:	X	X		A	U	T	O	:	X	X
D	A	B	O	R	T	:	X		M	R	:	X			E	N	A	B	:	X

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	WMST CYCLE (C22)	F5	
F3	COPY ZONE DATA (C2A3)	F6	DEFAULT MESSAGE
ESC	RETURN (C2)	ENT	
⇐	MOVE CURSOR TO LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	HELP (HL - C2)

SELECT ENTER TO ACCEPT ADVANCES ADDRESS COUNTER AND RETURNS TO C1 MENU.
A5-7 = ZONE NUMBER (EDIT BY NUMERIC KEYPAD) ZONES 1 - 240 EDITABLE
A9-11 = ZONE TYPE {=SUP}
A13-16 = ZONE DETECTION FUNCTION (CROSSZ, COUNTZ, SINREL)
B1-20 = ZONE CUSTOM MESSAGE
C11-12 = MANUAL PREDISCHARGE DELAY (00-30) (RELEASE CAUSED BY REL-WCT INPUT)
C19-20 = AUTOMATIC PREDISCHARGE DELAY (00-60)(RELEASE CAUSED BY DETECTION)
D7 = ABORT TYPE (1-6)
D12 = MANUAL RELEASE REQUIRED FOR ZONE (Y=YES, N= NO)
D20 = ZONE ENABLED/DISABLED (D, E)

Zone functions are defined as:
CrossZ - Cross Zone detection- An even and odd address must activate to enter predischarge.
CountZ - Counting Zone Detection- Two addresses on same zone must activate to enter predischarge.
SinRel - Single Sensor Release- Only one address must activate to enter predischarge.

Note : "Predischarge delay" is the predischarge duration which is time between:
a.) the start of 2nd detector alarm (or SDR) <and>
b.) the start of release (unless system is paused via an abort)

11.4.2.2 Zone Copy Configuration

This display can be used to copy zone set-up information from one zone to another. It is accessible for both suppression and alarm zones.

ZONE COPY (C2A3)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Z	O	N	E	:	X	X	X		T	T	T	-	F	F	F	F	F	F	
B	C	O	P	Y		A	L	L		C	O	N	F	I	G		T	O	:	
C	Z	O	N	E	:	X	X	X												
D	P	R	E	S	S		E	N	T	E	R		T	O		C	O	P	Y	

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2		F5	
F3		F6	
ESC		ENT	PERFORM ZONE COPY
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's	ADDR DATA ENTRY	HLP	HELP (HL - C2A3)

A1-5 = ZONE NUMBER WITH PERTINENT DATA
A10-19 = ZONE TYPE / FUNCTION
C1-5 = ZONE NUMBER TO COPY CONFIG DATA TO.

11.4.2.3 Watermist Zone Configuration

Watermist Releasing requires discharge operating cycles.

WATERMIST ZONE CONFIG (C22)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	C	Y	C	L	E		O	N			T	I	M	E	:			X	X	S
B	C	Y	C	L	E		O	F	F		T	I	M	E	:			-	-	S
C	C	Y	C	L	E		R	E	P	E	A	T	S	:					-	H
D	P	O	S	T		D	I	S		D	E	L	A	Y	:		-	-	-	S

F1	DECR. FIELD @ CURSOR	F4	INCR FIELD @ CURSOR
F2		F5	
F3		F6	
ESC	CONFIG (C2)	ENT	
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
#'s	DATA ENTRY	HLP	HELP (HL - C22)

A18-19 = CYCLE ON TIME (00 = NO CYCLE, 5-60 SEC IN 1 SEC INCREMENTS
B18-19 = CYCLE OFF TIME (5-60 SEC IN 1 SEC INCREMENTS
C19 = NUMBER OF CYCLE REPEATS (1-4)
D17-19 = POST DISCHARGE DELAY, PRIOR TO CHECKING IF STILL IN ALARM (15-600 SEC IN 1 SEC INCREMENTS)

11.4.3 Alarm-Only Zone Configuration

IF ALARM ZONE TYPE (C2B)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	Z	N	E	:	X	X	X		T	T	T	-	F	F	F	F	F	F		
B	C	U	S	T	O	M		M	E	S	S	A	G	E	-	-	-	-	-	-
C																				
D															E	N	A	B	:	X

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	WMST CYCLE (C22)	F5	
F3	COPY ZONE DATA (C2A3)	F6	DEFAULT MESSAGE
ESC	RETURN (C)	ENT	ACCEPT CHANGE
⇐	MOVE CURSOR TO LEFT	⇒	MOVE CURSOR RIGHT
# 's	DATA ENTRY	HLP	

A5-7 = ZONE NUMBER (EDIT BY NUMERIC KEYPAD)
A9-11 = ZONE TYPE {=ALM}
A13-16 = ZONE DETECTION FUNCTION {ALARM)
B1-20 = ZONE CUSTOM MESSAGE
D20: = ZONE ENABLED/DISABLED (D, E)

11.5 CONFIGURE SYSTEM VARIABLES

11.5.1 General System Variables Information

Pressing F3 from the Configuration display allows access to the "System Variables" video. It supports entry and storage of system, circuit, and loop configurations. Pressing function keys accesses these configuration capabilities:

F1- I/O Circuits:	ASC Controller circuits	Section 11.5.2
F2- Message:	System Message (displayed on system normal)	Section 11.5.3
F3- Pattern-	Audible patterns used on SOM devices	Section 11.5.4
F4- Time Group	Time Pattern Group for alarm sensitivity setup	Section 11.5.5

SYSTEM VARIABLES (C3)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	1	-	I	/	O		C	K	T		4	-	T	I	M	E		G	R	P
B	2	-	M	E	S	S	A	G	E		5	-								
C	3	-	P	A	T	T	E	R	N		6	-								
D	S	E	L	E	C	T		F	U	N	C	T	I	O	N		K	E	Y	

F1	IN & OUT CIRCUITS (C31)	F4	TIME CONTROL (C34)
F2	PANEL MESSAGE (C32)	F5	
F3	AUDIBLE PATTERN (C33)	F6	
ESC	RETURN (C)	ENT	
⇐		⇒	
# 's		HLP	HELP (HL - C3)

11.5.2 System Circuits:

11.5.2.1 System Circuit Options

Pressing F1 from the System Variables display allows access to the "I/O Circuits" video. Pressing Function keys accesses these configuration capabilities:

F1-	Outputs:	ASC two audible and 8 relay circuits	Section 11.5.3.2
F2-	Loop Circuits:	Device Loop wiring options	Section 11.5.3.3
F3-	Power Inputs:	Power Input configuration	Section 11.5.3.4

SYSTEM INPUT / OUTPUT CIRCUITS (C31)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	1	-	O	U	T	P	U	T	S		4	-								
B	2	-	L	O	O	P	C	K	T		5	-								
C	3	-	P	O	W	E	R	I	N		6	-								
D	S	E	L	E	C	T		F	U	N	C	T	I	O	N		K	E	Y	

F1	OUTPUTS (C311)	F4	
F2	LOOP WIRING (C312)	F5	
F3	POWER INPUTS (C313)	F6	
ESC	RETURN (C3)	ENT	
⇐		⇒	
# 's		HLP	HELP (HL - C31)

11.5.2.2 ASC Outputs:

This display allows configuration of the CSC Controller's two polarity reversal outputs, relay outputs, and the optional plug-in CRM4 relay modules. Configuration includes selection of a single state of operation, assigned zones, silencability, silenced upon abort activation, and enable /disable status.

Note: Circuits assigned to alarm, turn on (or remain on) upon entry into predischarge and release states.

Circuits assigned to predischarge, turn on (or remain on) upon entry into release states.

SYSTEM OUTPUT TYPE (C311)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	C	K	:	R	4	1	1		R	E	L	S		S		A				E
B	Z	O	N	E	:	0	1	1	-	X	X	0		Y		Y				E
C	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
D	-	-	-	-	-	Y	Y	Y	Y	-	-	-	-	Y	-	-	-	-	-	-

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2	CYCLE THRU ZONES	F5	
F3		F6	
ESC	RETURN (C31)	ENT	ACCEPT CHANGE
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's		HLP	HELP (HL - C311)

A9-10 = SYSTEM OUTPUT CIRCUIT (AUD1, AUD2, P411-P414, P421-P424)
D2-5 = STATE (NONE, PROC, TRB, SUPR, DRLL, ABRT, PAL1, PAL2, ALRM, PRED, RELE, WMST)
B6-12 = ZONES DISPLAYED ON LINE D. USE F1 & F2 TO ENTER MULTIPLES OF 20 IN B6-B8.
B14 = SILENCEABLE (Y/N)
B16 = SILENCED UPON ZONE ABORT ACTIVATION (Y/N)
B20 = CIRCUIT ENABLED/ DISABLED (Y/N)
D1-20 = INDICATES IF CIRCUIT IS ACTIVE FOR GIVEN ZONES (- =NO, Y = YES)

11.5.2.3 Loop Circuit Wiring:

This display allows selection of wiring mode for device communication loops. Wiring methods are detailed in the "Definitions" and "Wiring Diagrams" sections of this manual.

LOOP CIRCUIT WIRING (C312)

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	W	I	R	I	N	G					L	O	O	P	#	:	1	2	3	4
B										C	L	A	S	S	:		A	A	A	A
C									E	N	A	B	L	E	:		E	E	E	E
D																				

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2		F5	
F3		F6	
ESC	RETURN (C31)	ENT	ACCEPT CHANGE
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
# 's		HLP	HELP (HL - C312)

A17-20 = LOOP # (1-2 ON CSC CONTROLLER; 3-4 ON OPTIONAL SLM)
B17-20 = WIRING MODE OF EACH LOOP (A= CLASS A, B= CLASS B)
C17-20 = LOOPS ENABLED / DISABLED (E, D)