CHAPTER 9 Operation (door open, level 1 password)
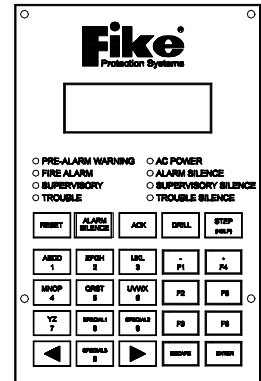
Menu options available under this level of access are:

    HISTORY: ALARM, EVENT, ZONE, CURRENT
    PASSWORD: (ENTRY)
    SPECIAL: LEVELS, SETTIME

9.1 OVERVIEW

This chapter defines system operation with the enclosure door open. This "level 1" access allows use of:

    * Five operator keys: 1.) Reset 2.) Alarm Silence 3.) ACK-nowledge
                            4.) Drill and 5.) Step
    * Viewing of subsequent "Recent Events" on the LCD via use of step key.
    * Viewing of alarm history records.
    * Viewing of non-alarm history records.
    * Viewing of zone history records.
    * Viewing of sensor status (% obscuration, MIC, temperature as appropriate).
    * Silencing of silencable events.
    * Setting of system time and date.

9.2 PRIMARY OPERATOR KEYS

#02-4020 Keypad

9.2.1 Reset:

Restores system to normal, turns off outputs, momentarily flashes all LED's, and temporarily resets Auxiliary Power (resettable only).

9.2.2 Alarm Silence:

Same as Acknowledge plus silences, silenceable events including pre-alarm1, pre-alarm2, alarm, predischarge, release, trouble and supervisory outputs.

9.2.3 ACK-nowledge:

Provides system recognition of events. Pressing turns off local piezo, logs "ACK" in event history, changes flashing LED events to steady, and transmits "ACK" event to remote devices.

9.2.4 Drill:

Activates outputs assigned to operate upon drill activation, logs drill event in history, and transmits signals to remote devices. Operates as a toggle switch.

9.2.5 Step:

Displays "recent events" on LCD in descending chronological order of occurrence. Pressing repeatedly cycles through all events since last reset. After viewing most recent event, pressing again cycles to first event.

9.3 MENU TRAVEL/PASSWORDS

Pressing function keys (F1-F6) allows access to menus as displayed below. For most menu travel menus (such as "Main Menu" below), the numbers displayed in columns 1 and 11 of the LCD display correspond to function key operation. The text in columns 2-10 and 12-20 describe the function key operation, which often is travel into embedded menu options.   The display title is noted and followed by a reference in parenthesis, (see Appendix 1, System Menu Flowcharts). Appendix 1 gives an overview of menu travel options.

While in the "System Message" display, pressing any function key allows access to the system "Main menu".

SYSTEM MESSAGE (1)

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

F1	MAIN MENU (M)	F4	MAIN MENU (M)
F2	MAIN MENU (M)	F5	MAIN MENU (M)
F3	MAIN MENU (M)	F6	MAIN MENU (M)
ESC		ENT	MAIN MENU (M)
←	MAIN MENU (M)	⇒	MAIN MENU (M)
#'s		HLP	

MAIN MENU (M)

	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											
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	

9.4 HISTORY RECORD

Viewing of history records is via the same displays previously described in Chapter 8. This information is stored in these three 600 event buffers:
* Alarm buffer: Stores all alarm event information including sensors, manual pulls, aborts, etc.
* Non-alarm (event) buffer: Stores non-alarm events including troubles, supervisory, process management.
* Zone buffer: Stores events on a zone basis.

Display of each of these buffers is possible via either the "current" mode or the "historical" mode. In the current mode, only the events since the last reset is displayed. In the historical mode, all events since the last history erase event can be viewed (within buffer size limitations).

HISTORY MENU (H)

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

F1	VIEW ALARM BUFFER (H1)	F4	VIEW CURRENT EVENTS (H4)
F2	VIEW EVENT BUFFER (H2)	F5	
F3	VIEW ZONE BUFFER (H3)	F6	ERASE HISTORY (H6)
ESC	RETURN TO MAIN (M)	ENT	
←		⇒	
#'s		HLP	

Selecting F1, F2, F3, or F4 allows acccess to the particular buffer desired. Erasing the history (F6) requires level 4 password access.

VIEW ALARM EVENTS HISTORY (H1)

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

F1	DECR. FIELD @ CURSOR	**F4**	INCR. FIELD @ CURSOR
F2		**F5**	
F3		**F6**	
ESC	RETURN TO HISTORY (H)	**ENT**	
⇐	MOVE CURSOR LEFT	**⇒**	MOVE CURSOR RIGHT
# 's		**HLP**	

A1-20 = SYSTEM EVENT DESCRIPTION / 5 DIGIT VALUE OF EVENT
B1-20 = CUSTOM MESSAGE OF DEVICE OR CIRCUIT
C1-20 = TIME/DATE STAMP OF DISPLAYED EVENT
D5-7   = EVENT INDEX WITHIN ALARM BUFFER
D9-11 = TOTAL BUFFER SIZE (MAXIMUM = 600)
D12-14 = CUR (CURRENT EVENTS SINCE LAST RESET) OR HIS (HISTORICAL RECORDS)
D16-20 = LOOP/ADDRESS OF EVENT.
   F1 & F4 KEYS ALLOW:
       1.) CHANGING OF RECORD NUMBER
       2.) TOGGLING BETWEEN HISTORICAL DISPLAY AND CURRENT DISPLAY.

VIEW NON-ALARM EVENTS HISTORY (H2)

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

F1	DECR. FIELD @ CURSOR	**F4**	INCR. FIELD @ CURSOR
F2		**F5**	
F3		**F6**	
ESC	RETURN TO HISTORY (H)	**ENT**	
⇐	MOVE CURSOR LEFT	**⇒**	MOVE CURSOR RIGHT
# 's		**HLP**	

A1-20 = SYSTEM EVENT DESCRIPTION / 5 DIGIT VALUE OF EVENT
B1-20 = CUSTOM MESSAGE OF DEVICE OR CIRCUIT
C1-20 = TIME/DATE STAMP OF DISPLAYED EVENT
D5-7   = EVENT INDEX WITHIN BUFFER
D9-11 = TOTAL BUFFER SIZE (MAXIMUM = 600)
D12-14 = CUR (CURRENT EVENTS SINCE LAST RESET) OR HIS (HISTORICAL RECORDS)
D16-20 = LOOP/ADDRESS OF EVENT
   F1 & F4 KEYS ALLOW:
       1.) CHANGING OF RECORD NUMBER
       2.) TOGGLING BETWEEN HISTORICAL DISPLAY AND CURRENT DISPLAY.

VIEW ZONE EVENTS HISTORY (H3)

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

F1	DECR. FIELD @ CURSOR	**F4**	INCR. FIELD @ CURSOR
F2		**F5**	
F3		**F6**	
ESC	RETURN TO HISTORY(H)	**ENT**	
⇐	MOVE CURSOR LEFT	**⇒**	MOVE CURSOR RIGHT
# 's		**HLP**	

A1-20 = SYSTEM EVENT DESCRIPTION / 5 DIGIT VALUE OF EVENT.
B1-20 = ZONE CUSTOM MESSAGE
C1-20 = TIME/DATE STAMP OF DISPLAYED EVENT
D5-7   = EVENT INDEX WITHIN ZONE BUFFER
D9-11 = TOTAL BUFFER SIZE (MAXIMUM = 600)
D12-14 = CUR (CURRENT EVENTS SINCE LAST RESET) OR HIS (HISTORICAL RECORDS)
D16-20 = ZONE OF EVENT
  F1 & F4 KEYS ALLOW:
       1.) CHANGING OF RECORD NUMBER
       2.) TOGGLING BETWEEN HISTORICAL DISPLAY AND CURRENT DISPLAY

VIEW CURRENT EVENTS HISTORY (H4)
A combination of all history buffers to display in order of occurrence.

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

F1	DECR. FIELD @ CURSOR	F4	INCR. FIELD @ CURSOR
F2		F5	
F3		F6	
ESC	RETURN TO HISTORY (H)	ENT	
⇐	MOVE CURSOR LEFT	⇒	MOVE CURSOR RIGHT
#'s		HLP	

A1-20 = SYSTEM EVENT DESCRIPTION / 5 DIGIT VALUE OF EVENT
B1-20 = CUSTOM MESSAGE OF DEVICE OR CIRCUIT
C1-20 = TIME/DATE STAMP OF DISPLAYED EVENT
D1-3 = EVENT INDEX WITHIN ALARM BUFFER
            F1 & F4 KEYS ALLOW:
                    1.) CHANGING OF RECORD NUMBER
D5-7 = TOTAL BUFFER SIZE (MAXIMUM = 600)
D15-17 = # OF ZONES IN PREDISCHARGE STATE
D18-20 = # OF ZONES IN PRE-RELEASE STATE
D19-23 = LOOP/ADDRESS OF EVENT.

ERASE HISTORY (H6) (requires level 4 password)

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

F1	RETURN TO HISTORY (H)	F4	RETURN TO HISTORY (H)
F2	ERASE HISTORY	F5	RETURN TO HISTORY (H)
F3	RETURN TO HISTORY (H)	F6	RETURN TO HISTORY (H)
ESC	RETURN TO HISTORY (H)	ENT	RETURN TO HISTORY (H)
⇐	RETURN TO HISTORY (H)	⇒	RETURN TO HISTORY (H)
#'s	RETURN TO HISTORY (H)	HLP	HELP (HL - H6)

Erasing the history will be described in detail in later chapters.

9.5 PASSWORD

Password access is required to access activities other than history viewing (and other functions described in this chapter). To enter password, press F2 from the main menu, then enter valid password per below.

Password entry is required to access most menu options. In general, access is limited per below:
   No password (Level 1): History Viewing   (per Chapter 9)
   Level 2 password: System enabling, disabling, and special functions.   (per Chapter 10)
   Level 3 Password: System configuration options.   (per Chapter 11)
   Level 4 Password: Password Editing   (per Chapter 12)

Access granted by a high level password automatically allows access to lower level password functions.

The system can have up to 16 unique level 2 passwords and 16 unique level 3 passwords. All passwords can only be edited by the system administrator via their level 4 password. If a level 4 password is lost, a temporary password can be accessed by contacting Fike and providing the 4 digit ID number displayed at the passwork entry menu.

Note: This manual's displays illustrate data entry (or script selection) fields with gray background. The system LCD shows these fields in a normal format.