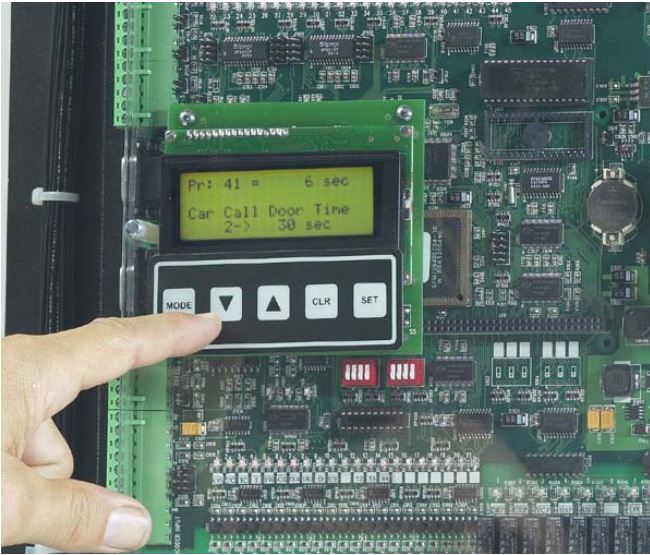


The ESI-C CPU Based Control System Users Manual



**Elevator Systems Inc
207 Lawrence Ave
Inwood , NY 11096**

ESI-C CPU Card Features:

State of the Art Surface Mount Technology.

Multi Layer PCB for rugged reliability.

AMD x86 Compatible CPU core.

Up to 512k Flash of program space.

Up to 512k SRAM.

16k of EEPROM for configuration, user parameters, event logging & statistical data storage.

45 optically isolated inputs with Led indication

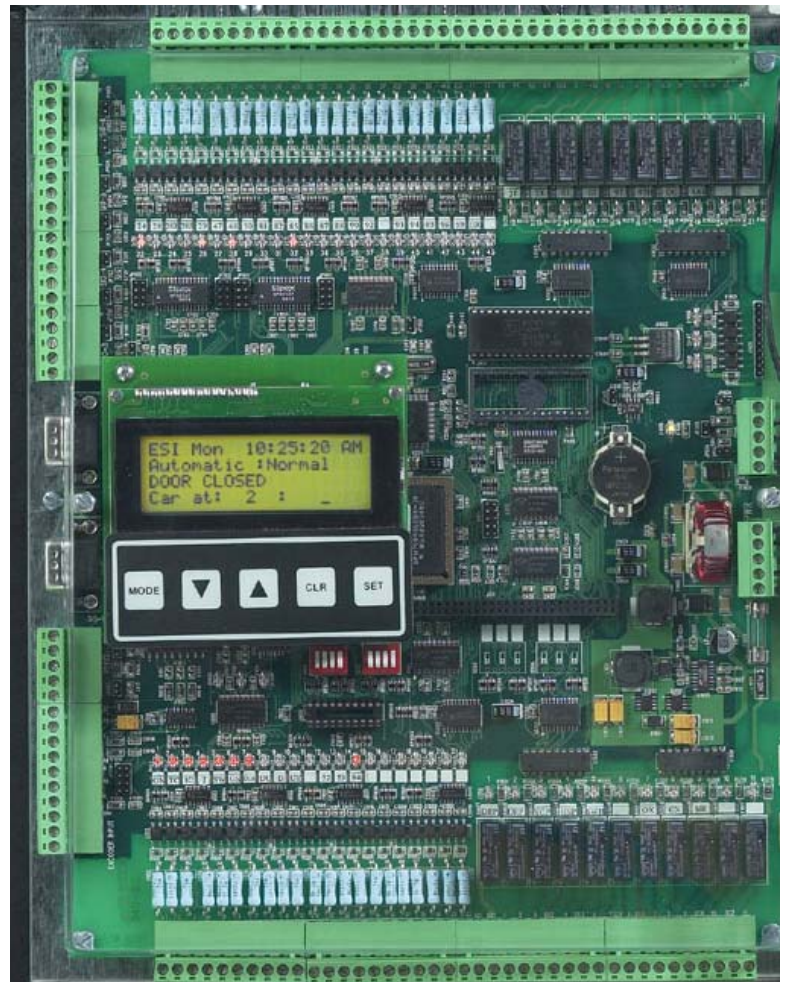
21 dry contact outputs with Led indication

3 Optically isolated transistor outputs with led indication

Real Time Clock for date/time stamping of events and statistical information.

Integrated 4*20 LCD & keypad user interface

High Speed encoder interface with 24bit up/down counter for speed and position control.



SEVEN Communication Ports:

One Modem communication port with the full complement of modem signals.

Six Communication Ports Software selectable as 485, 422 or RS232. These are used to connect “*EsiNET*” expansion cards for local or distributed control, to communicate with modbus compatible drives and to network with EsiNET intelligent fixtures.

LCD Keypad Description:

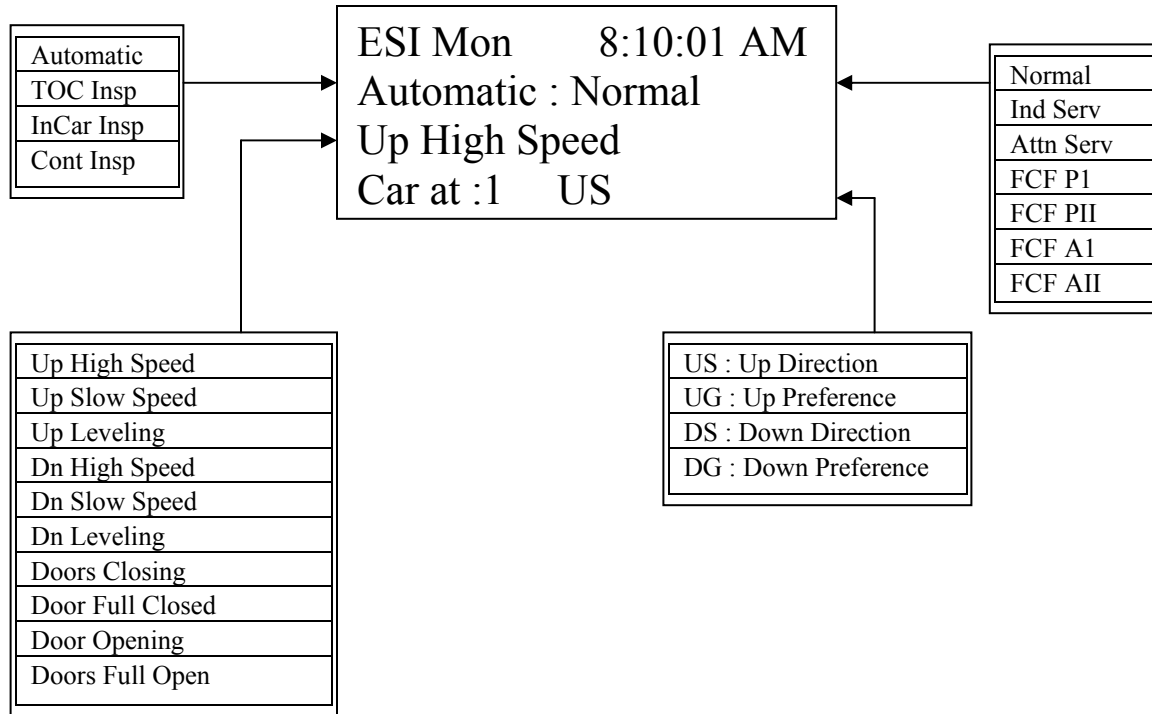
A 20 * 4 character backlit LCD with a 5 position keypad makes up the integrated user interface On all of Elevator Systems ESI-C elevator control systems.

- MODE** : Used to change LCD Display Mode.
- ↓** : To Scroll Down through various display screens and to adjust parameter settings.
- ↑** : To Scroll Up through various display screens and to adjust parameter settings.
- CLR** : To Clear current parameter editing and to force a drive reset without time delay
- SET** : Used to enter parameter settings and adjust operational information.

Display Modes:

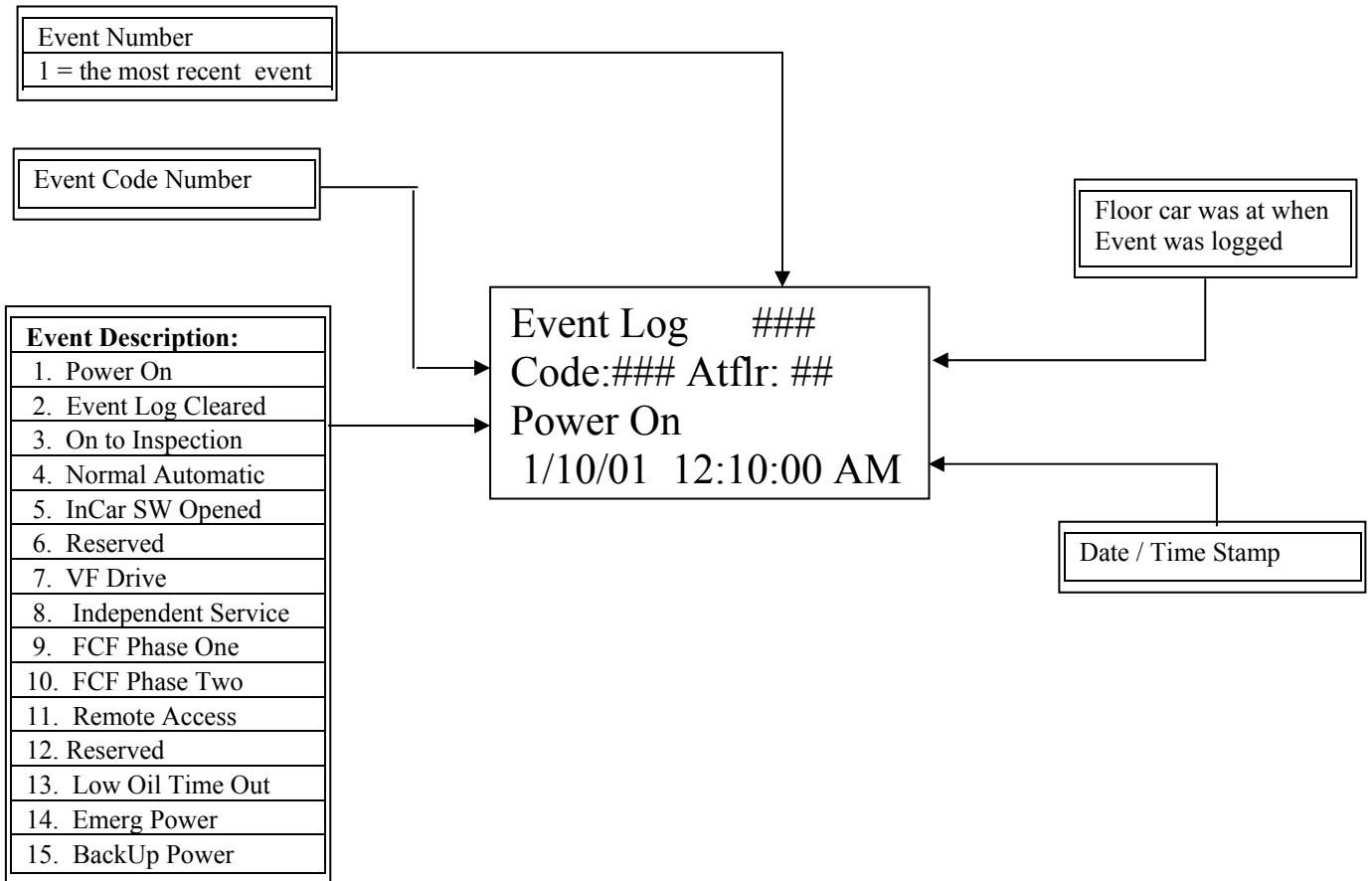
1. ESI Mon : Main Screen for monitoring current status of elevator
2. Job Info : Contains Controller Serial Number and Job address
3. View I/O : Use arrow to scroll through all system inputs and outputs
4. Internal Flags : View Internal flags status
5. Event Log : Scroll through events with time/date stamp
6. Place Car Call : To place car calls into system
7. Place Hall Call : To place hall calls into system
8. Parameters : Scroll through to edit desired parameter
9. Setup : Scroll through various setup options
10. Mem View : View ROM, RAM & EE2 memory
11. System Info : Software version information
12. Future1 :
13. Future2 :

1: ESI MON : ESI Car Monitor Display Mode:



5: View Event Log

Use ↓/↑ keys to scroll through event log.



To View and edit parameters:

1. Use ↓/↑ keys to scroll to desired parameter.
2. Press **SET** to place into edit mode . The equal sign “=” will blink.
3. Use ↓/↑ keys to change parameter setting.
3. Press **SET** to save changes. The equal sign “=” will stop blinking.
4. If **CLR** is pressed prior to saving changes the previous value will be restored.
5. **NOTE** Parameter #20 must be set to 3 to enable edit mode.

<u>Para#</u>	<u>Desc</u>	<u>Range</u>	<u>Default</u>	<u>Units</u>	<u>Access</u>
1	Top Floor	1 to 32			RD ONLY
2	Bottom Floor	1 to TOPFLR-1			RD ONLY
3	Selector Type	1 to 8 1 : Stepping of 85/86 2 : Direct Read ESI 3 : Stepping Cemco 4 : Direct Read Cemco 5 : #81/82 6 : 81/82 & 84 7 : Double 85/86 8 : Encoder Interface			RD ONLY
4	Controller Type	1 to 3 1 : VVVF 2 : HYD 3 : VV-MG			RD ONLY
5	Door Type	1 to 3 1 : Master Door 2 : Car Door 3 : Manual D & G			RD ONLY
6	Dir Lt Outputs	0 : Use 12 & 13 1 : Use 20 & 21			RD ONLY
7	In Car Key Sws	0 to 5 0 : No In Car Key Sw 1 : 1 st Flr Only = Inp 1-9 2 : All except lobby 3 : All Floors 4 : 2 nd Flr Only = Inp 1-10 5 : Bot & Top Floor 6 : 1 st & 2 nd Floors 7 : Master Key Input[1-9]			RD ONLY
8	Future				
9	Future				
10	Future				
11	Future				
12	Future				
13	Future				
14	Future				
15	Future				
16	Future				
17	Future				
18	Future				
19	Config CheckSUM				RD ONLY
20	Write Enable	0-50 0: No Write 3: Write enabled	0		

<u>Para#</u>	<u>Desc</u>	<u>Range</u>	<u>Default</u>	<u>Units</u>	<u>Access</u>	
21	Operation	1 to 4 1 : Sel/Col 2 : Col at Lobby 3 : Collective 4 : SAPB	1			
22	Lobby Floor	1 to Top Flr	1			
23	Park Floor	0 to Top Flr 0 = No Parking	0			
24	Door Nudging Opt	1 to 3 1 : No Edge TimeOut 2 : Buzzer, No Close 3 : Buzz & Close	3			
25	Down Gong Double	0 : In Fixture 1 : ½ via ESI	0			
26	In Car Inspection	0 : Disabled 1 : Enabled	1			
27	CX in out of door Zone	0 : Disabled 1 : Enabled	0			
28						
29						
30						
31	FCF Code	1 to 4 1 : National P/A 2 : NYC 3 : Chicago	1			
32	Prime FCF Floor	1 to Top Flr	1			
33	Alt FCF Floor	1 to Top Flr	2			
34	Nudging on FCF I	0 = No 1 = Yes	1			
35	Future					
36	Future					
37	Future					
38	Future					
39	Future					
40	Future					
41	Car Call Door Time	2 to 30 Sec	6 sec			
42	Hall Call Door Time	2 to 30 Sec	10 sec			
43	Lobby Door Time	2 to 30 Sec	10 sec			
44	Re-Open Door Time	2 to 30 Sec	3 sec			
45	Edge Time Out	10 to 60 Sec	25 sec			
46	Park Delay Time	2 to 600 Sec	60 sec			
47	PI ShutDown Time	0 to 600 Sec 0 : For NO Shut Down	0 sec			
48	Low Oil Time	30 to 300 sec/floor	45 sec			

Para#	Desc	Range	Default	Units	Access	
49	Ind/Att Disc Time	1 to 60 sec	15 sec			
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60	Remote Access Code	0 – 64000	12345			
61	OUTPUT #20 Options	0 to 4 0 : No Ouput 1 : Low Oil LT 2 : In Use Lt 3 : OS 4 : OsnoSWTPmem	0			
62	Reserved		0			
63	DG/UG on OL,Z,SD	0 – 2 0: On OL 1: On Z, Door Zone 2: On SD, SlowDown	0			
64	Door Hold = 28S	0 = No Door Hold Input 1 = Input25 = #28H	0			
65	Door Hold Door Time	3 – 600 sec	60sec			
67	'S' Button Enable for #61 S/P Buzzer	0: None #61 always works 1: Use INPUT[15] 2: Use INPUT[35]	0			
101 102	Floor 1 Marking Floor 2 Marking T H R U	1-60 1 = "1" to 32 = "32" 33 = "B" 34 = "B1" 35 = "B2" 36 = "B3" 37 = "C" 38 = "D" 39 = "G" 40 = "G1"	1 2			

<u>Para#</u>	<u>Desc</u>	<u>Range</u>	<u>Default</u>	<u>Units</u>	<u>Access</u>	
132	Floor 32 Marking	41 = "G2"	32			
		42 = "G3"				
		43 = "GF"				
		44 = "GR"				
		45 = "L"				
		46 = "L1"				
		47 = "L2"				
		48 = "L3"				
		49 = "LL"				
		50 = "M"				
		51 = "P"				
		52 = "P1"				
		53 = "P2"				
		54 = "P3"				
		55 = "PH"				
		56 = "R"				
		57 = "S"				
58 = "SB"						
59 = "T"						
141	Flr 1 Call Disable	0 : All Calls Enabled 1 : Car Calls Disabled 2 : ALL CALLs Disabled	0			
thru	thru					
172	Flr 32 Call Disable					
200	Reserved					