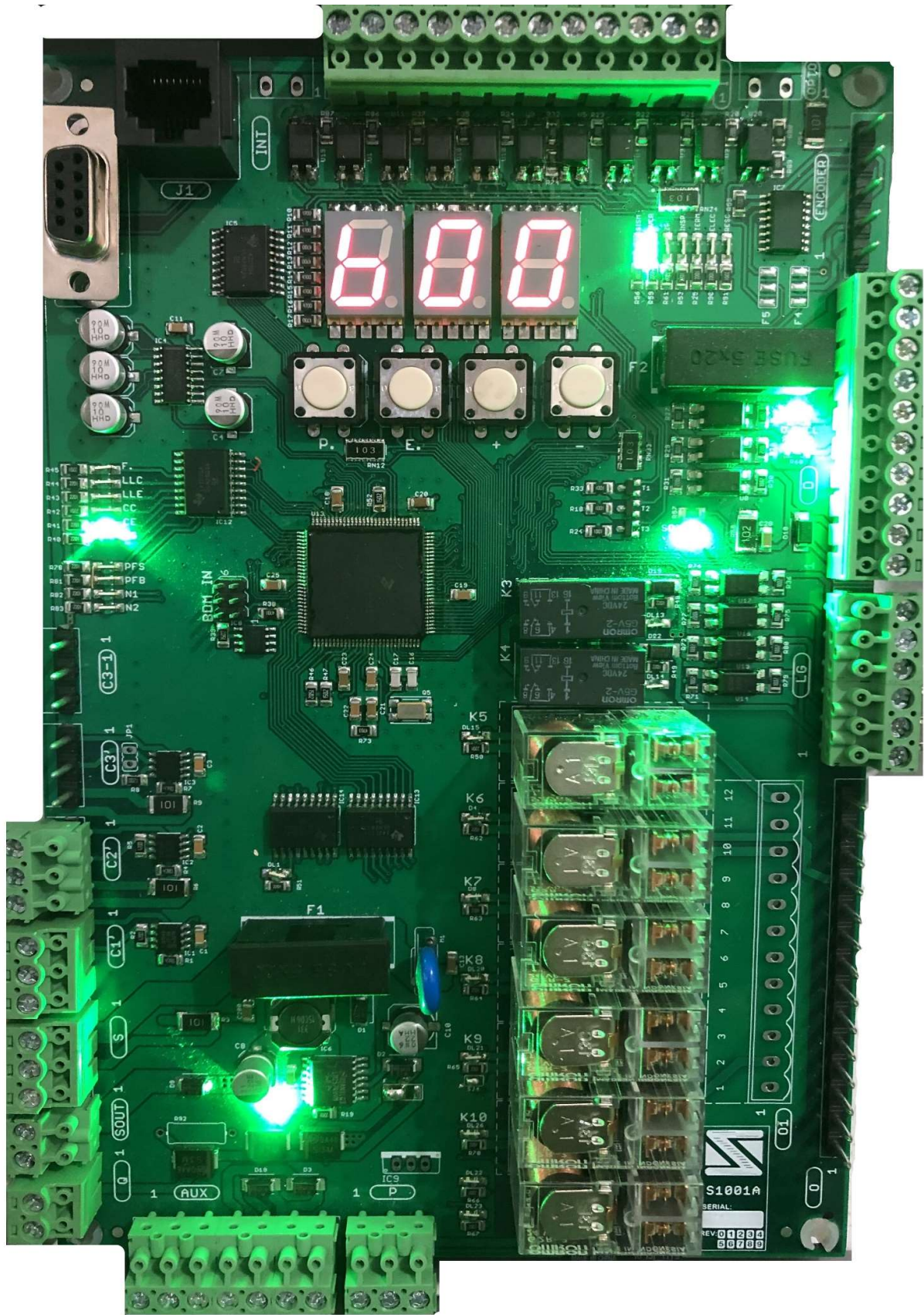


VVC1001A





BOARD VC S1001A_V10+

Specs:

- Up to 32 floors.
- Max Speed 500 fpm(2.5 m/s).
- Car Bus and Landing bus.
- VVVF, Two Speeds, Hydraulic.
- Shaft flags by optic sensors, magnets or Encoder.
- Two access.
- Automatic, semi or manual door.
- Three Password levels

Standard functions:

- Fire recall
phase1 and
phase 2.
- Door hold.
- Car preference.
- Double Touch Car Call Erase.

Connector S: Main supply.

1	0 VDC
2	+ 24 VDC
3	Ground

Connector SOUT: Supply out.

1	0 VDC
2	Out 24 VDC

Connector Q: Cabin supply.

1	0 VDC
2	+24 VDC

Connector Aux:

1	0 VDC
2	Battery
3	External supply relay K9
4	External supply relay K5
5	External supply relay K6
6	NOP
7	NOP

Connector P:

1	Fault
2	A3
3	Door Close

Connector O: Control signals.

1	Re level and pre opening door K1
2	Re level and pre opening door K1
3	V0/Hydraulic Enable/VVF V0.
4	V0/Hydraulic Enable/VVF V0.
5	AXL/ Main Contactor.
6	AXL/Main Contactor.
7	VVF V1/Hydraulic high speed UP.
8	VVF V1/Hydraulic high speed UP.
9	VVF V2/Hydraulic high speed DW.
10	VVF V2/Hydraulic high speed DW.
11	DOWN
12	DOWN
13	UP
14	UP

Connector O1:

1	V0
2	V0
3	AXL
4	AXL
5	V1
6	V1
7	V2
8	V2
9	DOWN
10	DOWN
11	UP
12	UP

Connector LG: Shaft travel limits. Speed $\geq 1.6\text{m/s}$

1	BUTTON SLOW DOWN
2	TOP SLOW DOWN
3	NORMAL BUTTON
4	NORMAL TOP
5	+24 VDC
6	+24VDC

Connector D: Door series.

1	Door series Ok
2	Gate Switch
3	free
4	free
5	Lock series
6	free
7	Lock series
8	Landing series
9	free
10	Common Series+24 vdc

Connector ENCODER: Encoder for positioning.

1	0 VDC
2	+ 5vdc o +24vdc according F4
3	Negative date A
4	Positive date A
5	Screen

Connector Opto- PA0, PB0

Connector I: Inputs

1	0 VDC
2	Drive Fault
3	Tension rescue
4	Generating set/Without tension rescue
5	Speed Governor
6	Down service
7	Up service
8	Service
9	Door Zone
10	Over load
11	Safety input
12	+24 VDC

Connector J1: Programming tool.

1	0 VDC
2	+ 24 VDC
3	Free
4	Interphone
5	interphone
6	Free
7	Rx
8	Tx

Connector

COM1(PC):RS232

Connector C2: Car Bus.

1	CAN H
2	CAN L
3	SCREEN

Connector C1: Landing Bus.

1	CAN H
2	CAN L
3	SCREEN

Connector C3: Group.

1	CAN H
2	CAN L
3	SCREEN

Fuses: F1 = Main fuse 5A. F2 = Series fuse 2A.

Relay description

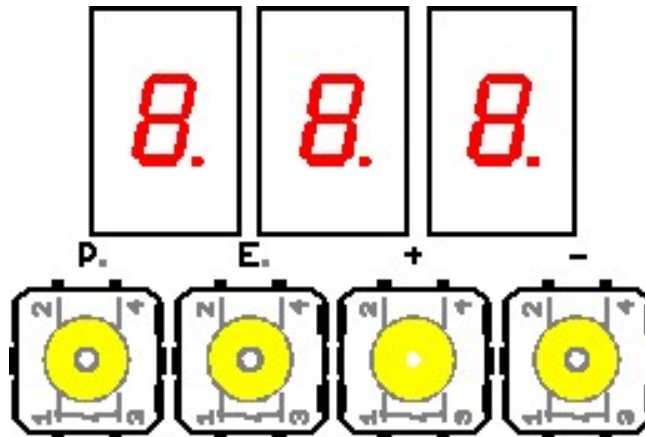
Relay	Function	Description
K1	V3	Re level and pre opening.
K2	Fault	Rescue or rope gripper.
K3	SAFETY UP	Enable the high speed V2.
K4	SAFETY DW	Enable the high speed V2.
K5	UP	UP signal.
K6	DOWN	Down signal.
K7	V2	Binary speed 2.
K8	V1	Binary speed 1.
K9	AXL	Movement auxiliary.
K10	V0	Binary speed 0.

Led description

F	Fault ON.
LLC	There is a car call.
LLE	There is a landing call.
CC	Car CAN communication.
CE	Landing CAN communication.
CG	Group CAN.
PFS	Slow down Top (PFS)
PFB	Slow down Button (PFB)
N1	Level 1 (NS)*
N2	Level 2 (NB)*
ENC	Secondary Serie
EXT	Hatch Serie
SD	Car Serie
DL2	Supply 24VDC OK
RES C	Rescue
ELEC	UPS
TERM	Speed Governor
ZP	Door zone
OVER	Overload input
SISM	Safety input

*On position menu this LED shows the Normal SW status. N1 Normal Up, N2 Normal DW.

Screen Interface



Menu:

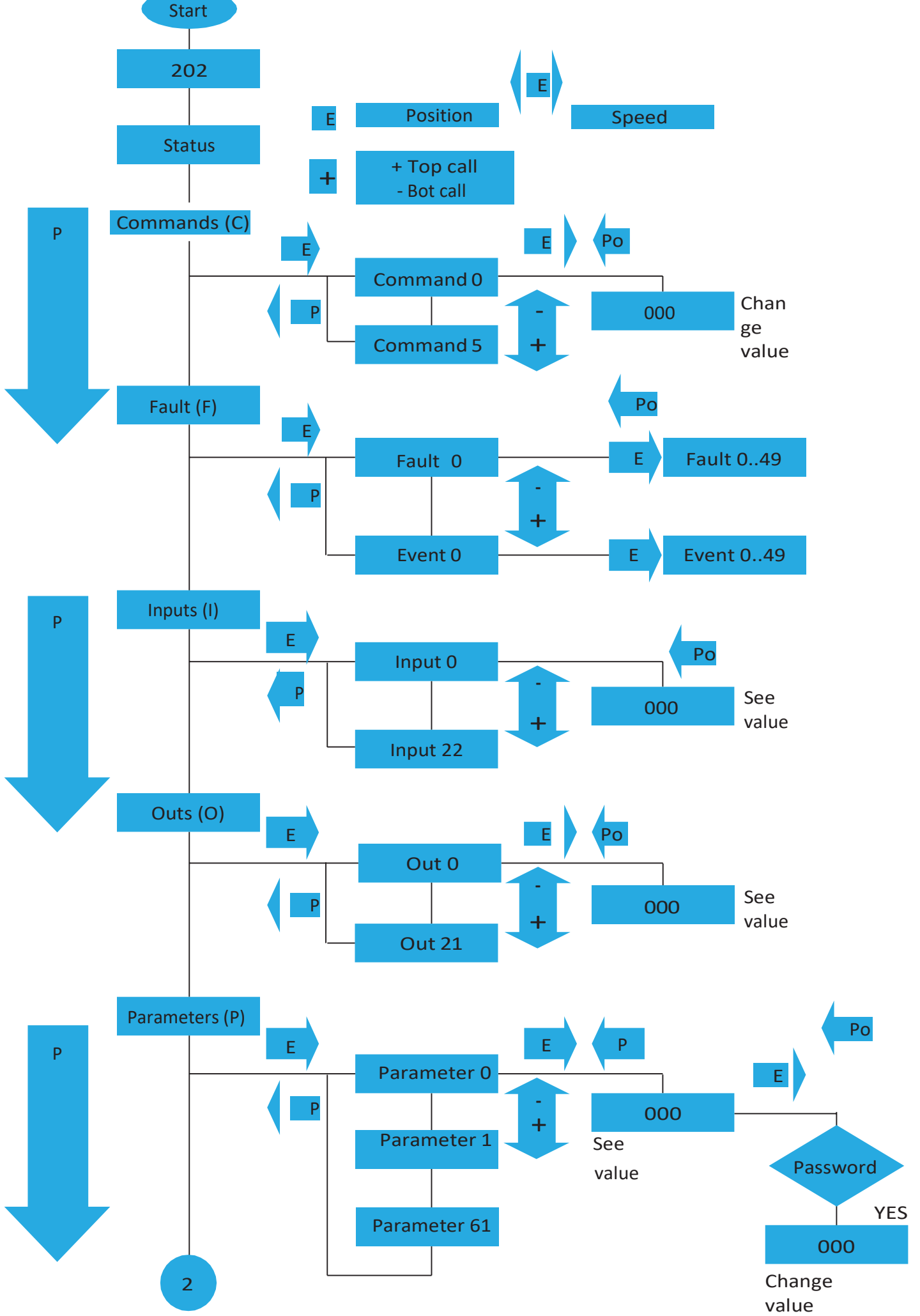
- Status + Position + Speed
- Commands(c)
- Faults(F)
- Inputs(I)
- Outputs(o)
- Parameters(p)
- Digits(d)
- Stops(L)
- Advance(A)

All the menus have different levels, the status screen allows to see the real situation in the controller and see the fault code when there is a break down.

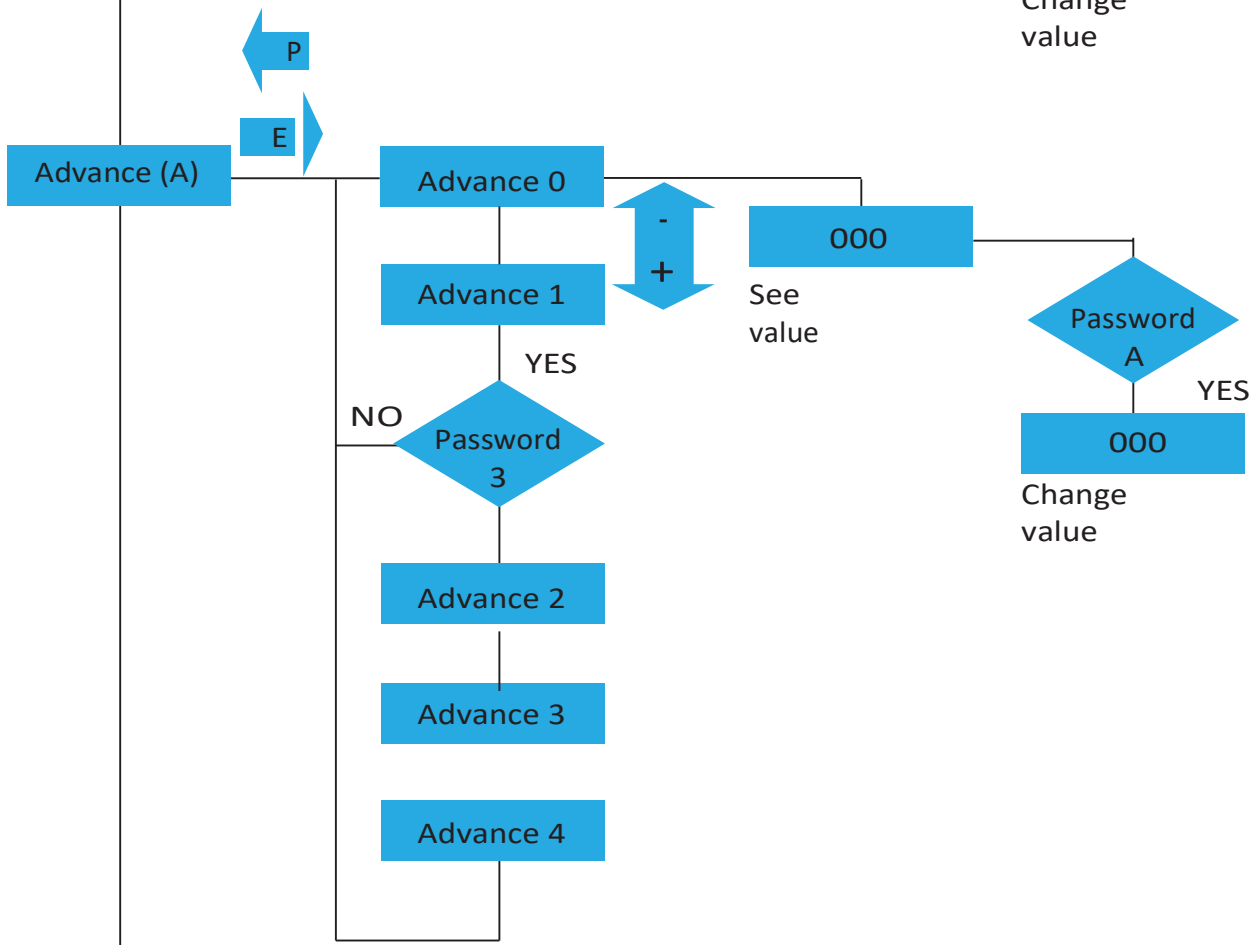
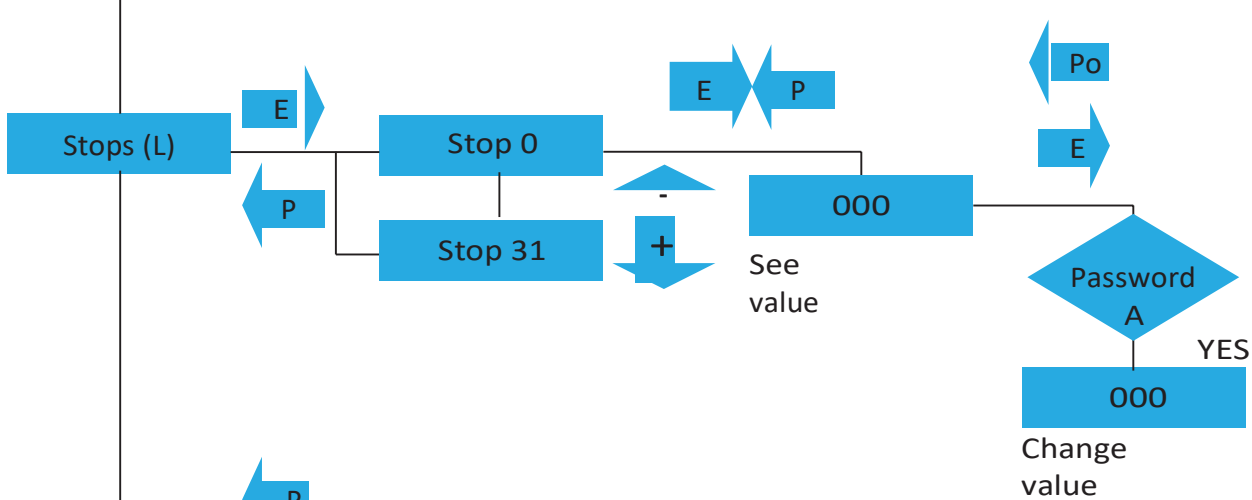
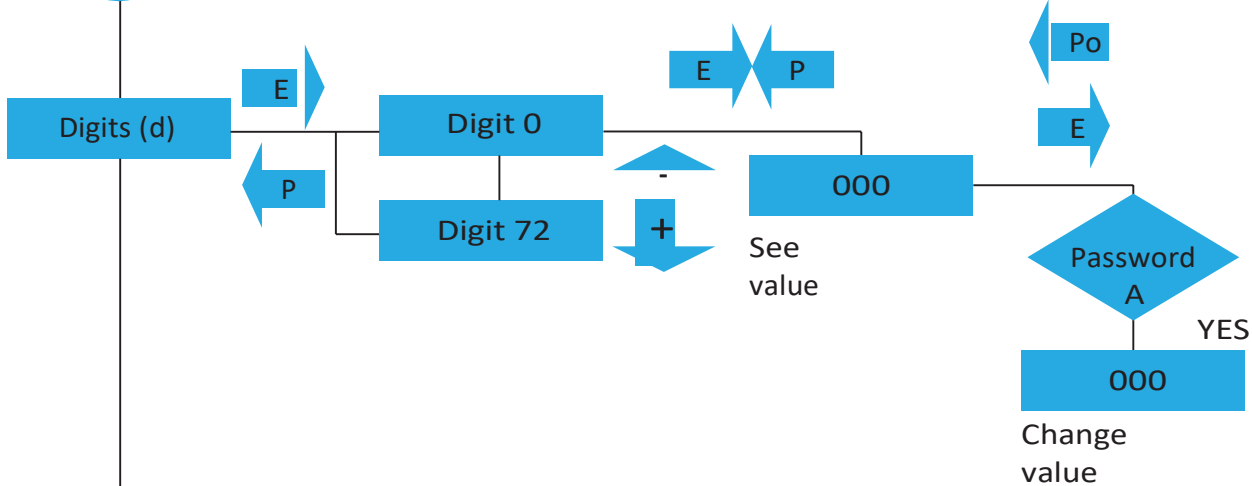
The screen has three seven segments displays, it shows text and numeric values. When the right led is ON it means parameter value, the value might be modified when this led is blinking.

The keys are (P) to change menus and scape. The key (E) to go into the parameters and save. Key + to change sub menus or increase the parameter value. Key - to roll back menus or decrease the parameter value

Surf into the menu:



2



Screens description

Menu Status:

Screen		STATUS	DESCRIPTION
noP	0	NOT READY	The elevator is waiting to restart operation.
oPE	1	Open doors	
CLS	2	Close doors	The DCL is OFF.
STP	3	Stopping	Reaching floor level.
UP	4	Going UP	
dn	5	Going DW	
---	6	Fault	
InS	7	Service	The Car is on inspection.
FLL	8	Full	Car Full, is not attending landing calls.
oL	9	Over load	Car Overload, is not closing the door.
luP	10	Service UP	
ldn	11	Service DW	
ser	12	Waiting series	Waiting the door series.
Fre	13	Firefighter	Phase 1 or Phase 2 active.
Spd	14	Speed Governor	Speed Governor Contact.
doP	15	Door open	The DOL is ON.
CAI	16	Self learning	Learning the shaft set up.
oUt	17	Out of service	Elevator Break Down.
ErC	18	Emergency	
Set	19	Command	A car call from the controller is ON.
oP	20	Ready	Ready to work.
dH	21	Door Hold	
rUn	22	Re level and pre opening	
GEn	23	Generating set	Auxiliary power ON.
ACU	24	Access SW UP	
CP	25	Independent Service	
rt	26	Tension rescue	
lit	27	Normal SW Open	
SAF	28	Safety Open	
ACC	29	Car Access SW	
LnB	30	Land By	The hatch doors are jumped.
CrB	31	Car By	The Car door are jumped.
Inr	32	Controller Inspection SW	The car is on inspection.
CST	33	Car Stop SW is ON.	The COP stop SW is active.

OdP	34	Open door Push Button	
CdP	35	Close door Push Button	
obS	36	Door Edge	
ACd	37	Access SW Down	
	40	Car Call	
	41	Up Call	
	42	Dw Call	
	45	Elevator Position	45 + floor position.

Sub Menu Position:

With the screen at status, push once the push button key E to move into the next sub menu, that menu shows

the elevator position.

At position menu the N1 and N2 LED become the Normal SW status.

N1=Normal Up

N2=Normal DW

Out of position menu the N1 and N2 shows the floor level signals.

Sub Menu Speed:

With the Screen at the position, push once the push button key E to move into the next secondary menu, that

Menu show the car speed. That option is available along with the encoder connected into the connector E.

Menu commands [C]:

SCREEN	COMMAND	DESCRIPTION
C00	DOES NOT OPEN DOOR	= 1, The lift does not open the door.
C01	CAR CALL	Cabin call from 1 TO 32.
C02	SELF LEARNING	The lift does the shaft learning. 1 = Used for NTS.
C03	PASSWORD1*	
C04	PASSWORD2*	
C05	PASSWORD3*	

*The passwords are 4 digits, the last one is showed on hex code with the LED CG, CE, CC, LLE.

Menu Faults and Events(F):

FAULT	DESCRIPTION
F01	<p style="text-align: center;">Drive Fault:</p> <p>Verify drive status, identify the fault code in the Drive, use drive manual to troubleshoot break down and reset it.</p>
F02	<p style="text-align: center;">Encoder:</p> <p>The impulses coming from the encoder unit remain off. The car is not moving or the encoder signal is broken. The number of impulses coming from the encoder unit overcome the internal counter of the CPU. Verify Encoder set up. Verify Encoder connections.</p>
F03	<p style="text-align: center;">Magnets:</p> <p>The travel distance between floors is overcome at least by 50%. The car is not able to find the floor level and reset the floor distance. The encoder unit is broken or getting noise. The selector unit is broken or set up improperly. The car needs to relearn floor distances.</p>
F04	<p style="text-align: center;">Opening Door:</p> <p>The car overcome the time to open the door and find the door open limit (DOL) several times. If the Car goes to other floor and it is able to open the door, the number of tries restart on zero. If not trip the door error.</p>
F05	<p style="text-align: center;">Close Door:</p> <p>The car overcome the time to close and find the door close limit(DCL), the door series override this signal. If the car is not able to close the door, it tries several times before to trip the door error.</p>
F06	<p style="text-align: center;">Number of Floors:</p> <p>The car did the learning process and the number of floors did not match the floors programmed. Review the floor signals and the parameter P03.</p>

F07	<p>Door Monitoring:</p> <p>The door monitoring fault is active. The DOL is ON and the hatch door series are ON.</p> <p>Verify the door and see if it is open, verify short circuit in door series, verify DOL.</p> <p>The gate SW is close and the DOL is ON.</p> <p>Verify gate SW, Verify short circuit on gate SW serie, verify DOL.</p>
F08	<p>Car Can:</p> <p>The communication with the Car was lost or is lost for more than one second.</p> <p>Verify the LED CC, that indicates if there is communication with the car.</p> <p>Verify if the car boards run LED blinks faster than one second. Verify connections and right sequence 1-1, 2-2, S-S on can cable.</p> <p>Faulty board.</p>
F09	<p>Landing Car:</p> <p>The communication with the landing devices was lost or is lost for more than one second.</p> <p>Verify the led CE, that indicates if there is communication with the landing devices.</p> <p>Verify if landing devices run LED blinks faster than one second. Verify connections and right sequence 1-1, 2-2, S-S on can cable.</p> <p>Faulty board.</p>
F10	<p>Bottom or Top Slow down:</p> <p>The car is at bottom floor and the bottom slow down is OFF, or the car is at top floor and the top slow down is OFF, or the car is at one intermedium floor and both slowdowns are ON.</p> <p>Verify slowdowns and connections.</p>
F11	<p>Parameter Error:</p> <p>One of the CPU parameters is not matching the back up memory.</p> <p>The CPU is getting to much electrical noise.</p> <p>Verify power connections, Earth, filters.</p>

F12	<p style="text-align: center;">Obstruction:</p> <p>The car door is not able to close due to an obstacle.</p> <p style="text-align: center;">Verify door edge.</p> <p style="text-align: center;">Verify door edge connections.</p> <p>The parameters I18 show the door edge input status.</p> <p style="text-align: center;">1 = Door Edge1 is ON.</p> <p style="text-align: center;">2 = Door Edge2 is ON.</p> <p style="text-align: center;">3= Door Edge1&2 are ON.</p>
F13	<p style="text-align: center;">Over Speed:</p> <p>The over speed governor input is tripped, an event of elevator over speed has happened.</p> <p style="text-align: center;">Verify Drive Unit Configuration.</p> <p style="text-align: center;">Verify Over Speed Unit set up.</p> <p style="text-align: center;">Verify Over Speed Governor SW.</p> <p style="text-align: center;">Restart the car on normal after complete verification of contract speed.</p>
F14	<p style="text-align: center;">Gate Switch:</p> <p>The car gate switch is open. SD LED is OFF.</p> <p style="text-align: center;">Verify the car door.</p> <p style="text-align: center;">Verify the door operator.</p> <p style="text-align: center;">Verify the gate switch connection.</p>
F15	<p style="text-align: center;">Hatch Door:</p> <p>The hatch door is open.</p> <p style="text-align: center;">D.Ext(primary) LED is OFF or D.ENC(secondary) LED is off.(swing door)</p> <p style="text-align: center;">Verify hatch door.</p> <p style="text-align: center;">Verify interlock connection.</p>
F16	<p style="text-align: center;">NTS:</p> <p>The slow down signal got active inappropriately. Wrong sequence.</p> <p style="text-align: center;">Verify slowdowns and connections, verify magnets, car is going into creep speed by finals.</p>
F17	<p style="text-align: center;">Normal:</p> <p>The Normal switch got active inappropriately, wrong sequence.</p> <p style="text-align: center;">Verify the slow down distance.</p> <p style="text-align: center;">Verify the slow down switch.</p> <p style="text-align: center;">Verify the Normal set up.</p>
F18	<p style="text-align: center;">Low Speed Timer:</p> <p>The elevator trip the low speed timer without getting into floor level.</p>

	<p>The travel between floors is not complete or is taking for too long.</p> <p>Verify OIL level.</p> <p>Verify selector set up.</p> <p>Verify speeds set up.</p>
F19	<p>High Speed Timer:</p> <p>The elevator trip the high speed timer without getting into floor level.</p> <p>Verify speed set up.</p> <p>Verify selector set up.</p> <p>Repeat self learning.</p>
F20	<p>Uncontrol Movement:</p> <p>The car lost its floor level unexpectedly. There are not travel signals and the car moves out of the door zone.</p> <p>The car is out of floor level and is not able to recover it.</p> <p>Verify brake adjustments.</p> <p>Verify oil liking.</p> <p>Verify relevel adjustments.</p>
F21	<p>Door Zone:</p> <p>The door zone signal stays on during floor to floor travel.</p> <p>Verify door zone sensor.</p> <p>Verify door zone connections.</p>
F22	<p>Pressure Switch:</p> <p>The pressure switch sensor is active.</p> <p>Verify oil level.</p> <p>Verify valve block unit.</p> <p>Verify pressure switch sensor.</p> <p>Verify connections.</p> <p>Verify safety gear.</p>
F23	<p>Safety Input:</p> <p>The safety input(I11) is OFF.</p> <p>Verify safety chain.</p> <p>Verify rope gripper.</p>
F24	<p>COP Stop Switch:</p> <p>The COP stop switch is active.</p> <p>Verify stop switch.</p> <p>Verify connections.</p> <p>Parameter I17 shows the status.</p> <p>1=Stop switch active.</p> <p>3=stop switch active.</p>
F25	<p>Car Safety Open:</p> <p>The car safety chain is open.</p> <p>LED SFC on board S0500A is OFF.</p> <p>Parameter I22 show the status.</p> <p>Verify top car station to see what car safety is open.</p>

<p>F26</p>	<p>Shaft Safety Open: The shaft safety is open. LED SFS on board S0500A is OFF. Parameter I22 show the status. Verify top safety circuit and connections. Verify top over travel limit, stops switch, hatch switch.</p>
<p>F27</p>	<p>Pit safety Open: The pit safety is open. LED SFP on board S0500A is OFF. Parameter I22 show the status. Verify top safety circuit and connections. Verify pit stop,</p>

Menu Inputs [{}]:

SCREEN	INPUT	DESCRIPTION	VALUE
I00	UP CALL 7...0	Landing UP calls from 0 and 7.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I01	UP CALL 15..8	Landing UP calls from 8 and 15.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I02	UP CALL 23.16	Landing UP calls from 16 and 23.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I03	UP CALL 31.24	Landing UP calls from 24 and 31.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I04	DW CALL 7...0	Landing DW calls from 0 and 7.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I05	DW CALL 15..8	Landing DW calls from 8 and 15.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I06	DW CALL 23.16	Landing DW calls from 16 and 23.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I07	DW CALL 31.24	Landing DW calls from 24 and 31.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I08	CAR CALL 7...0	Car calls from 0 and 7.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I09	CAR CALL 15..8	Car calls from 8 and 15.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I10	CAR CALL 23.16	Car calls from 16 and 23.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I11	CAR CALL31.24	Car calls from 24 and 31.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
I12	COP 7. 0	COP push buttons and keys.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Open doors 1 Close doors 1 Fire fighter phase2 Door hold Independent Car Access Open door 2 Close door 2 +
I13	Landing keys 7. 0	Landing Keys.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Fire fighter phase 1 Phase 1&2 Reset Hat Fire Alternative floor Access SW BTD Access SW TPU Access SW BTU Access SW TPD +

14	Safety		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Drive Fault Rescue Overload Generating set Speed Gover Landing series Car serie Lock series +
l15	Magnets		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Travel limit Floor level Up limit Down limit Speed change UP Speed change DW Level 1 Level 2 +
l16	Weight Device		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Call cancel Full Overload +
l17	Obstruction		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Obstacle 1 Obstacle 2 +
l18	Door Edge		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Photocell access1 Photocell access2 +
l19	Door Limits		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Open limit access 1 Close limit access 1 Open limit access 2 Close limit access 2 +

I20	Service		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Service Service Up Service Dw Service open door Service close door +
I21	Encoder	Impulses from the encoder when this option is enabled.	0 to 256
I22	Safety & Access	Safety input and access switch magnets.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Free Free Access Top Access Bottom Free Free Free Safety Input(I11) +
I23	Safety & Keys	Safety inputs board S0500A and keys.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - SFP(pit) SFS(shaft) SFC(car) Land BY Car BY Emergency Parking Free +
I24	Dip Switches	Dip switches on board S0500A	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - DIP1(Fire Reset) DIP2(Construction) DIP3 DIP4 +

Menu Outputs [O]:

SCREEN	OUTPUT	DESCRIPTION	VALUE
O00	FLOOR	Floor where the lift is located.	00 To 31
O01	SIGNALS1	Internal signals to see the controller status.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Arrow UP Arrow DW Run Service Fire Phase 1 Fire phase 2 Car Ph2 Hat Travel sense of direction +
O02	SIGNALS2	Internal signals to see the controller status.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Complete Excess Empty Turn off Gong Ext Gong Car Failure Erase calls +
O03	OUTPUTS 1	Outputs to the relays.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Open door access 2 Open door access 1 Close door access 1 Relay K9(AXL) Relay K8(V1) Relay K7(V2) Relay K5(UP) Relay K6(DW) +
O04	OUTPUTS 2	Outputs to the relays.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - Close door access 2 Relay K10(RV0) Relay Fault (K2) Relay (K1) +

O05	OUTPUTS 3	Outputs to the LEDS.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1 - CAN Group CAN Landing CAN Car Landing call Car call Fault +
O06	UP CALL 7...0	Landing call assigned to this controller.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O07	UP CALL 15..8	"	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O08	UP CALL 23.16	"	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O09	UP CALL 31.24	"	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O10	DOWN CALL 7...0	"	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O11	DOWN CALL 15..8	"	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O12	DOWN CALL 23.16	"	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O13	DOWN CALL 31.24	"	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O14	KEEP ON UP7...0	Landing Call Active.	+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O15	KEEP ON UP 15..8		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O16	KEEP ON UP 23.16		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O17	KEEP ON UP 31.24		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O18	KEEP ON DOWN 7...0		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O19	KEEP ON DOWN 15..8		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O20	KEEP ON DOWN 23...16		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O21	KEEP ON DOWN 31...24		+ from 0 to F from 0 to F - 8 4 2 1 8 4 2 1
O22	DOOR SECUENCE	This parameter shows the door1&2 sequence within automatic operation. Shows the door sequence when phase 2.	
O23	STATUS	Status of the elevator. Shows a number assigned to each task. See menu status for numbers.	

Menu Parameters [P]:

SCREEN	PARAMETER	DESCRIPTION	VALUE
P00	LIFT NUMBER	It gives a number to the elevator. The number is used to apply a delay on the start up sequence. It is also use when the elevator is working in a group to name it.	0 to 31.
P01	PEOPLE	It is the car capacity.	0 and 30 personas
P02	VEL COMPENSATION	It is used to use an intermediate speed when the lift is traveling between floors.	0 = No, one change speed magnet . 3 = Yes, use intermediate speed, two change speed magnets.
P03	STOPS	It is equal to the building stores.	0 and 31.
P04	Drive Fault	It allows to activate or deactivate the drive or soft start fault monitoring, it also allows to change between open and close contact.	0= N.O 1= N.C 2= OFF
P05	SAFETY	The input SIST is verifying either the rope griper or the emergency break.	0= N.O 1= RG 2= EB
P06	OPENING TIME	It Is the time that the controller is giving the open signal. If the time is equal or bigger to 20, the door limits are active.	0 and 255 x 0,05 sec.
P07	CLOSING TIME	It Is the time that the controller is giving the close signal, it is overcome when the controller gets the door series or door limit. If the time is equal or bigger to 20, the door limits are active.	0 and 255 x 0,05 sec.
P08	DRIVE	It allows to choose the type of drive included with the controller and what positioning signals are used into the hoist way.	0 = NOP. 1 = VVVF with encoder. 2 = VVVF with magnets. 3 = NOP. 4 = 2 speeds with encoder. 5 = 2 speeds with magnets. 6 = NOP. 7 = Hydraulic with encoder. 8 = Hydraulic with magnets.
P09	ACCESS	It is related to how the access are configured in the elevator hoist way.	0 = one access. 1 = two separated access. 2 = two access, two doors at same floor, passing through.
P10	PRE OPENING	Open the doors when the elevator gets into the DZ.	0 = No. 1 = Yes.

P11	RE LEVEL	It active the re level option.	0 = No. 1 = Yes.
P12	LOWEST FLOOR	Use this option when the elevator is working in a group and the elevator does not travel as low as the group, it shifts the bottom floor.	0 and 4.
P13	ENCODER(K) FACTOR	This parameter is a factor to adjust the encoder impulses into mm or fpm. $K = \frac{P}{3.1416 * D * R} * T$ P= encoder impulses. D= Pulley diameter. R= Gear ratio. T= 1:1 , 2:1 o 4:1.	>=1 controller Encoder.
P14	ALLOCATE FLOOR	Select the floor where the elevator should travel after overcome the time without calls.	0 = NOP 1 to 32.
P15	TIME K9 (AXL) ON	Turn on delay time to the AXL relay.	0 and 255 x 0.1sec
P16	TIME K9 (AXL) OFF	Turn off delay time to the AXL relay.	0 and 255 x 0.1sec
P17	TIME K5 (UP) ON	Turn on delay time the UP relay.	0 and 255 x 0.1sec
P18	TIME K5 (UP) OFF	Turn off delay time to the UP relay.	0 and 255 x 0.1sec
P19	TIME K6 (DW) ON	Turn on delay time the DW relay.	0 and 255 x 0.1sec
P20	TIME K6 (DW) OFF	Turn off delay time to the DW relay..	0 and 255 x 0.1sec
P21	TIME K10 (RV0) OFF	Turn off delay time to the relay K10.	Varia entre 0 and 255 x 0.1seg
P22	DOOR TIME	Time to keep the door open after the car door is fully open, this time is jumped with pushing the close door button.	0 and 255 x 1sec. 0 a 63 = Automatic door. 64 a 127 = Semi door. 128 a 255 = Manual door.
P23	OUT SERVICE FLOOR	It is the destination floor when the user activate the OUT OF SERVICE key.	0 and 31.
P24	ALTERNATIVE FLOOR	It is the destination floor when the user activate the alternative fire recall signal.	0 and 31.
P25	FIRE FIGHTER	It is the destination floor when the user activate the FIRE recall signal	0 and 31.
P26	ACCESS FLOOR 00	Choose the door that should be open by the controller when the lift get this floor.	0 = First access 1 = Secound access 2 = Both access
P57	ACCESS FLOOR 31		
P58	NOP	NOP	
P59	VOLUME	Adjust the volume of the voice announcer.	0 and 200.
P60	GENERATING SET	Adjust the volume of the voice announcer.	0 = No able. >=1 x100 mSec.

P61	UNIVERSAL	The controller just pick up one call at once.	
-----	-----------	---	--

*If PASSWORD2 is equal to 7, the parameters screen shows the floors distance inside the shaft, these are learned during the self learning process when encoder is able:

P00 A P31	FLOOR HIGH	Distance between floors.	The shows value is divided by 10.
P32	SLOW DOWN DISTANCE	Distance between the signal of UP limit and the floor level. This distance is used like the speed change between floors .	The shows value is divided by 10.
P33	TRAVEL LIMIT	Distance between the signal of TRAVEL limit and the floor level. This distance is used like the speed change between floors with intermedium speed.	The shows value is divided by 10.
P33	MAX SPEED	This is the speed when the car hits the slow down, Multiply By 20 = m/seg.	
P34	MIN SPEED	This is the speed when the car hits the floor level signal, Multiply By 20 = m/seg.	
P35	FLOORS	Number of floors counted during the self learning process.	

Menu digits[d]:



SCREEN	PARAMETER	DESCRIPTION	CHARACTERS
D00	DIGIT 1 FLOOR 0	It chooses the character showed in the digit 1 when the lift gets this floor.	0123456789ABCDE-FGHIJKLMNOPQRSTUVWXYZ (VOID).
D01	DIGIT 2 FLOOR 0	It chooses the character showed in the digit 2 when the lift gets this floor.	0123456789ABCDE-FGHIJKLMNOPQRSTUVWXYZ (VOID).
D02	DIGIT 1 FLOOR 1	It chooses the character showed in the digit 1 when the lift gets this floor.	0123456789ABCDE-FGHIJKLMNOPQRSTUVWXYZ (VOID).
D03	DIGIT 2 FLOOR 1	It chooses the character showed in the digit 2 when the lift gets this floor.	0123456789ABCDE-FGHIJKLMNOPQRSTUVWXYZ (VOID)-.
d(n*2)	DIGIT 1 FLOOR n		
d(n*2)+1	DIGIT 2 FLOOR n		
D64	ARROW	It allows to choose the type of arrow.	0 and 4.
d65 A d72	MESSAGE	It allows to configurate a message of 8 characters.	0123456789ABCDE-FGHIJKLMNOPQRSTUVWXYZ (VOID)-People, Lb, Kg.

Menu short stops [L]:

The short stops are those floors without the distance necessary to allow the controller follow the standard acceleration curves according to the nominal speed.

When the option of short stop is able for a random floor, the controller uses an intermedium speed.

SCREEN	PARAMETER	DESCRIPTION	VALUE
L00	SHORT STOP FLOOR 0.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
L01	SHORT STOP FLOOR 1.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
L..	SHORT STOP FLOOR X.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
L..	SHORT STOP FLOOR X+1.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
L..	SHORT STOP FLOOR X+1.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
L31	SHORT STOP FLOOR 31.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON

Menu Advance [A]:

SCREEN	PARAMETER	DESCRIPTION	VALUE
A00	TRAVELS	Total travels.	$A01 * 1000 + A00$
A01	TRAVELS	Total travels.	
A02	PASSWORD 1		0 to FFFF.
A03	PASSWORD 2		0 to FFFF.
A04	LOCK	Security code.	0 to FFFF.
A05	UNLOCK	Security code.	0 to FFFF.