



S8002A

SIVYK SK8002A

Board S8002_A

Main board to control up to 8 stops.



Connectors

Connector S: Main Supply.

1	0 VDC
2	+24 VDC
3	Ground

Connector Q: Car Supply.

1	0 VDC
2	+12/24 VDC

Connector Aux:

1	0 VDC
2	Battery
3	Auxiliar power supply for relays K5, K6
4	Contact K1
5	Contact K1
6	Enable Output
7	Supply relay K9

Connector P: Door Outputs.

1	Common door 2
2	Close door 2
3	Open door 2
4	Common door 1
5	Close door 1
6	Open door 1

Connector O: Direction and speed Outputs.

1	K9
2	K9
3	K7(H Rápida/VVF K1+K2)
4	K7(H Rápida/VVF K1+K2)
5	K6(DOWN)
6	K6(DOWN)
7	K5(UP)
8	K5(UP)

Connector O1: Pendant.

1	K1
2	K1
3	K6
4	K6
5	K5
6	K5

Connector COM1: Computer RS232.

Connector D: Door series.

1	Series ok
2	Car Serie
3	free
4	Common Car Serie
5	Secondary Lock
6	free
7	Common Secondary Lock
8	Primary Lock
9	free
10	Common +24 vdc

Connector I1: Inputs

1	OD1
2	CD1
3	OBS1
4	OBS2
5	FIREMAN
6	DH
7	OVERLOAD
8	SAFE
9	OP1
10	OP2

Connector I2: Inputs.

1	PFS
2	PFB
3	NS
4	NB
5	THERMIC
6	SERVICE
7	SERVICE UP
8	SERVICE DW
9	DOOR ZONE
10	RESCUE

Connector O2: Outputs.

1	BINARY 0
2	BINARY 1
3	BINARY 2
4	ARROW UP
5	ARROW DW
6	BUSY/CP
7	FAULT
8	LIGHT

Connector C1: Bus CAN.

1	CAN L
2	CAN H
3	SHIELD

Fuses

F1 = Main Fuse.

F2 = Door Serie.

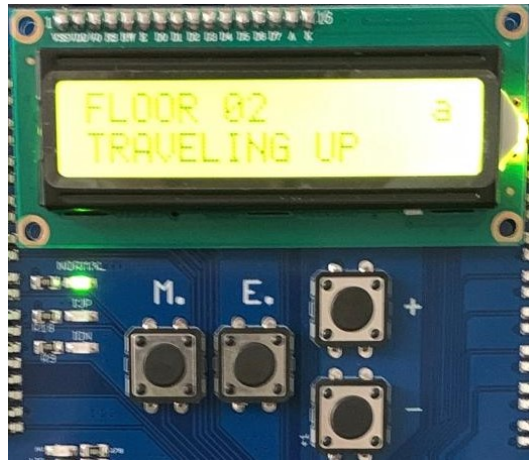
Relays Description

Relay	Function	Description
K0	Enable	Negative output to RH relay.
K1	V1	Service Speed VVF.
K5	UP	Up Signal.
K6	DW	Dw Signal.
K7	V2	High Speed.
K9	AXL	Movement Aux.
K11	AP1	Open door 1
K13	AP2	Open door 2

Leds

TERMICO	NC Thermic signal.
NPISO	Door Zone.
PFS	UP travel limit.
PFB	DN travel limit.
NB	DN floor level.
NS	UP floor level.
NORMAL	OFF Lift on service.
OBS1	Obstacle 1 ON.
OBS2	Obstacle 2 ON.
SAFE	Safety Chain OK
D.PRI	Primary Door Lock.
D.SEC	Secondary Door Lock.
D.GS	Car Gate Sw.
DL2	Supply OK

User Interface

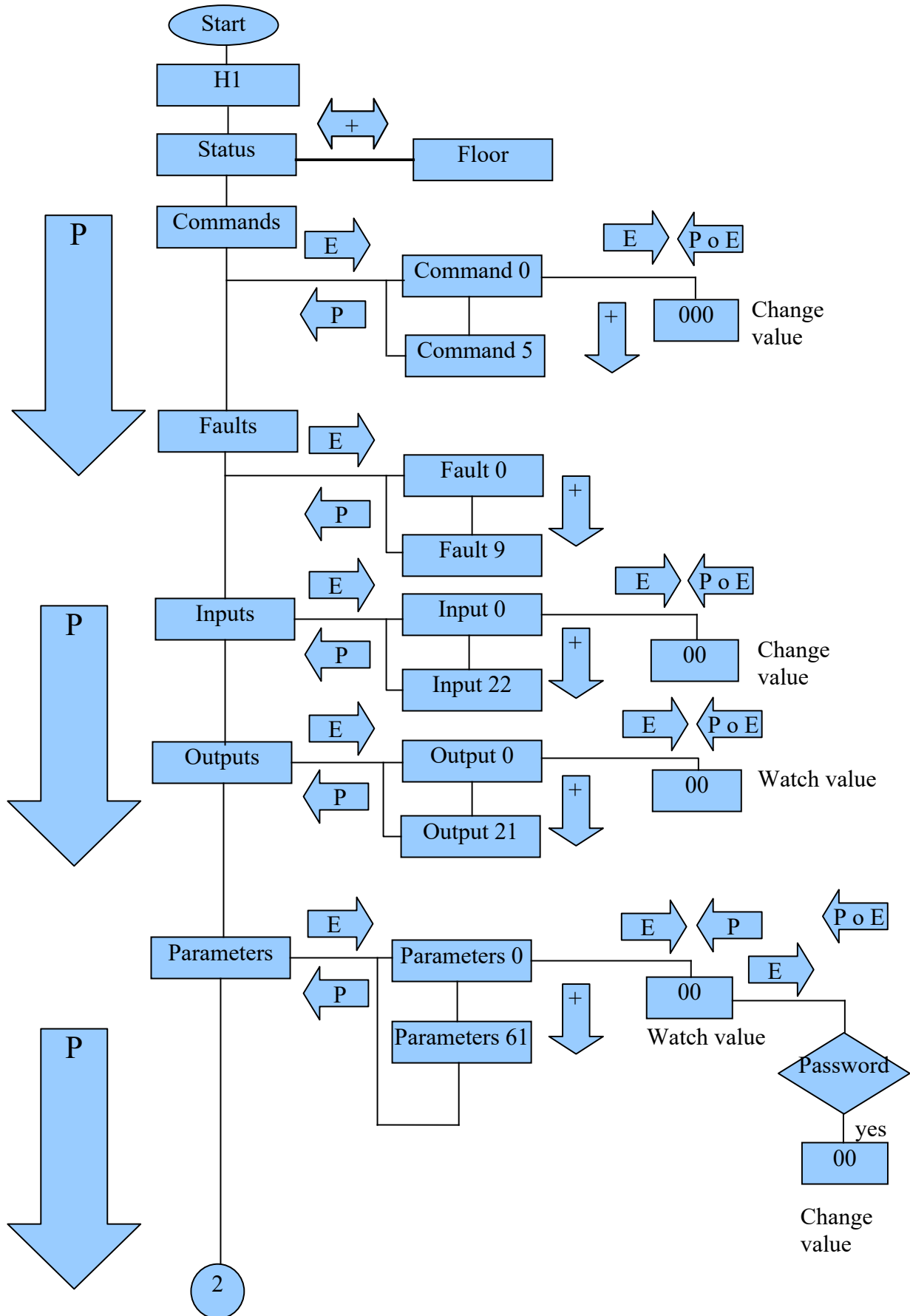


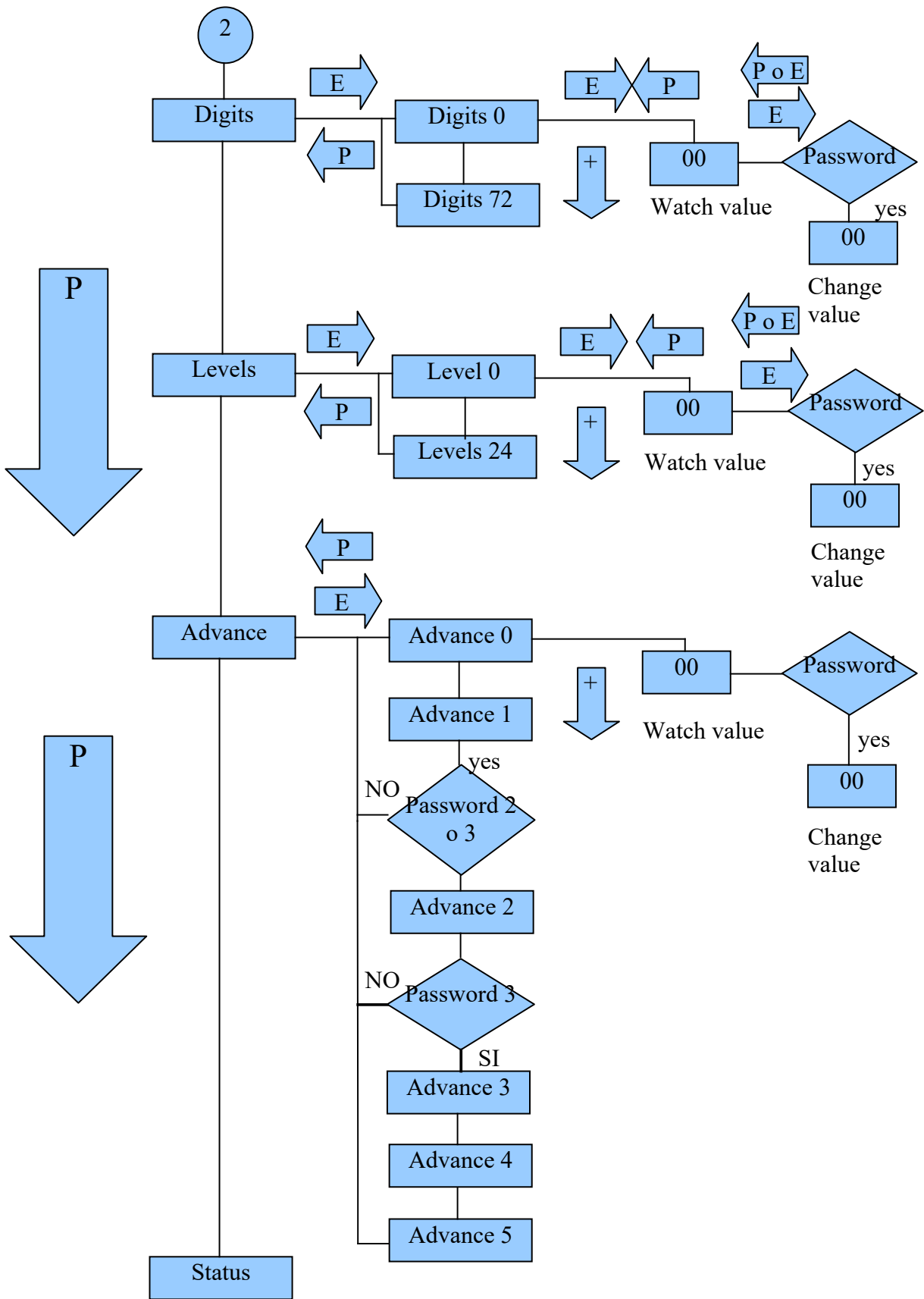
This terminal allows the user to have unlimited access to navigate into the menus and either modify the parameters or visualize the inputs/outputs.

The menus are:

- Status
- Commands
- Faults
- Inputs
- Outputs
- Parameters
- Digits
- Short Floor
- Advance

The way to surf inside the menus are:





Screens description

Status:

<u>Status</u>	<u>Message</u>	<u>DESCRIPTION</u>
0	NOT READY	
1	OPENING DOORS	
2	CLOSING DOORS	
3	STOPING	
4	TRAVELING UP	
5	TRAVELING DOWN	
6	FAULT ACTIVE	
7	INSPECTION	
8	CAR FULL	
9	CAR OVERLOAD	
10	SERVICE UP	
11	SERVICE DOWN	
12	DOOR LOCKS OPEN	
13	FIREMAN	
14	THERMIC	
15	DOOR OPEN	
16	SHAFT LEARNING	
17	EMERGENCY	
18	OUT OF SERVICE	
19	COMMAND ON	
20	NORMAL	
21	DOOR HOLD	
22	INDEPENDENT	
23	RESCUE	
24	SAFETY OPEN	
25	DOOR OPEN PUSH	
26	DOOR CLOSE PUSH	
27	DOOR EDGE SENSOR	
28	DRIVE FAULT	

<u>Status</u>	<u>Message</u>	<u>DESCRIPTION</u>
29	CAR CALL	
30	UP CALL	
31	DOWN CALL	

Faults:

<u>Faults</u>	<u>DESCRIPTION</u>
F00	NO CODE
F01	DRIVE FAULT
F02	OPENING DOOR
F03	CLOSING DOOR
F04	SLOW DN
F05	HIGH SPEED TIME
F06	LOW SPEED TIME
F07	CAR SERIES
F08	HALL SERIES
F09	THERMIC
F10	FLOORS
F11	CAN CAR
F12	CAN HALL
F13	SAFETY OPEN
F14	DOOR ZONE
F15	PHOTOCELL

Commands:

<u>SCREEN</u>	<u>COMMAND</u>	<u>DESCRIPTION</u>
C00	DONT OPEN DOOR	= 1, the lift does not open its doors.
C01	CAR CALL	Call 1 to 8.
C02	SHAFT LEARNING	Shaft learning.
C03	PASSWORD1	
C04	PASSWORD2	
C05	PASSWORD3	

HEX CODIGO TO READ INPUTS AND OUTPUTS

0000 = 0
0001 = 1
0010 = 2
0011 = 3
0100 = 4
0101 = 5
0110 = 6
0111 = 7
1000 = 8
1001 = 9
1010 = A = 10
1011 = B = 11
1100 = C = 12
1101 = D = 13
1110 = E = 14
1111 = F = 15

Inputs:

<u>PANTALLA</u>	<u>ENTRADA</u>	<u>DESCRIPCION</u>	<u>VALUE</u>
E00	CALL UP 7...0	To see the landing calls UP, between floors 0 and 7.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1
E01	nop		
E02	nop		
E03	nop		
E04	CALL DW 7...0	To see the landing calls DW, between floors 0 and 7.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1
E05	nop		
E06	nop		
E07	nop		
E08	CAR CALLS 7...0	To see the CAR calls, between floors 0 and 7.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1
E09	nop		
E10	nop		
E11	nop		
E12	CAR KEYS 7...0		+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Open door 1 Close door 1 nop DH +
E13	LANDING KEY 7...0	.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Bombero Exterior +
E14	SAFETY		+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Confirmation Door zone Thermic nop nop Landing serie Car serie Lock serie +
15	MAGNETS	To see state of the flags inside the shaft.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - nop floor level High stop(PFS) High stop(PFB) Speed change up Speed change dw Level up(DS) Level dw(DB) +

E16	LOAD SENSOR	Weight Sensor	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - nop Full Overload +
E17	OBSTACLE		+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Obstacle 1 Obstacle 2 +
E18	nop		
E19	nop		
E20	SERVICE	To see the inspection signals.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Service Service UP Service DW +
E21	nop		
E22	nop		

Outputs:

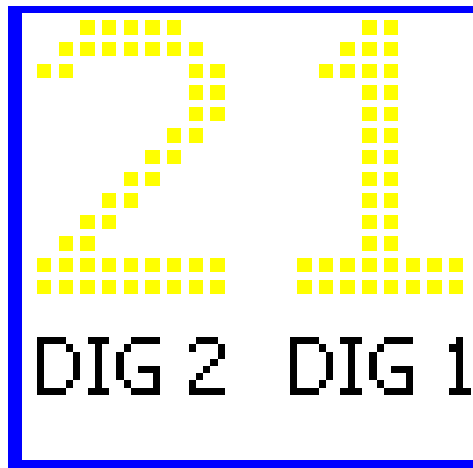
<u>SCREEN</u>	<u>OUTPUT</u>	<u>DESCRIPTION</u>	<u>VALUE</u>
S00	FLOOR		00 A 16
S01	SIGNALS1	Control performance signals.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Arrow UP Arrow DW Run Service Landing fireman nop nop Travel DW +
S02	SIGNALS2	Control performance signals.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Full Overload Empty Indicators off Landing Gong Car Gong Faults Erase calls +
S03	OUTPUTS1	Relays state.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Enable Fault/V1 OD2 OD1 AXL High Speed UP DW +
S04	nop		
S05	OUTPUTS3	Leds signals, 1 = led ON.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1 - Can0 ON LL landing on Fault LL car on NS NB PFS PFB +
S06	CALL UP 7...0	Landing calls that are taking by the controller.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1
S07	nop		
S08	nop		
S09	nop		

S10	CALL DW 7...0	“	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1
S11	nop		
S12	nop		
S13	nop		
S14	CALL UP 7...0	Landing calls that are keeping on by the control.	+ 0 A F 0 A F - 8 4 2 1 8 4 2 1
S15	nop		
S16	nop		
S17	nop		
S18	CALL DW 7...0		+ 0 A F 0 A F - 8 4 2 1 8 4 2 1
S19	nop		
S20	DOOR SECUENCE		
S21	STATUS		

Parameters:

SCREEN	PARAMETER	DESCRIPTION	VALUE
P00	LIFT NUMBER	Give a number to each lift.	between 0 and 8.
P01	PEOPLE	Car capacity.	between 0 and 30
P02	SELECTIVITY	Is the way to attend the call.	0 = Down less 0. 1 = Down less 0 y 1.
P03	FLOORS	Stops number	Between 1 to 8.
P04	DRIVEFAULT	To activate the drive verification.	0= OFF 1= NO contact 2= NC contact
P05	LIGHT TIME	LIGHT TIME TIMER	Value by 10.
P06	OPENING TIME	Time to keep the open relay on	Between 0 y 20 sec.
P07	CLOSING TIME	Time to keep the close signal on.	Between 0 y 20 sec.
P08	DRIVE	Choose the power element that is controller.	0 = VVVF. 1 = Two speeds. 2 = Hydraulic unit.
P09	ACCESS	Choose the access.	0 = one access. 1 = two access.
P10	nop		
P11	RELEVELING	Allow to enable the relevel function.	0 = No. 1 = ENABLE.
P12	LOWEST FLOOR	Just to group controls when this lift does not attend some basement	Between 0 and 4.
P13	BINARY	Binary or 1 bit.	0 = Binary 1= 1 bit
P14	ALLOCATE	Choose the floor where the lift travel after does not have any call	between 1 y 16.
P15	TIME K9 (AXL) ON	Delay time ON for the relay AXL.	0 and 99 x 0.1seg
P16	TIME K9 (AXL) OFF	Delay time OFF for the relay AXL.	0 and 99 x 0.1seg
P17	TIME K5 (UP) ON	Delay time ON for the relay SUBE.	0 and 99 x 0.1seg
P18	TIME K5 (UP) OFF	Delay time OFF for the relay SUBE.	0 and 99 x 0.1seg
P19	TIME K6 (DW) ON	Delay time ON for the relay BAJA.	0 and 99 x 0.1seg
P20	TIME K6 (DW) OFF	Delay time OFF for the relay BAJA.	0 and 99 x 0.1seg
P21	TIME E OFF	Delay time OFF for the relay Enable.	0 and 99 x 0.1seg
P22	DOOR TIME	Delay time to close time after the door is fully open.	between 0 y 99 x 1seg. 0 a 31 = Automatic door. =>2 Enable reopening. 32 a 63 = Semi door. 64 a 99 = Hand door.
P23	nop		
P24	nop		
P25	FIREMAN DOOR	Choose the fireman floor.	0 y 7.
P26	ACCESS FLOORPISO 00	Choose the access when the lift is on that floor.	0 = first. 1 = second.
P57	... ACCESS FLOOR 31		
P58	nop		
P59	VOLUME	Sound level of some acustics signals.	Between 0 and 100.
P60	RESCUE TIMER	Only gearless to open brake.	0 to 99.
P61	PRESENT MAN	Enable the function to constant push on the car call push button.	0= no 1= Enable

DIGITS PI 1, 2, 3:



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 floors:

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
S00	SHORT STOP FLOOR 0.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
S01	SHORT STOP FLOOR 1.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
S..	SHORT STOP FLOOR X.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
S..	SHORT STOP FLOOR X+1.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
S..	SHORT STOP FLOOR X+1.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON
S07	SHORT STOP FLOOR 7.	Enables short stop on the travel to this floor.	0 = OFF 1 = ON

Advance:

<u>SCREEN</u>	<u>PARAMETER</u>	<u>DESCRIPTION</u>	<u>VALUE</u>
A00	TRAVELS	Travels Counter	0 a 99999
A01			
A02	PASSWORD 1	If PASSWORD2 or PASSWORD 3 are right.	0 a FF.
A03	PASSWORD 2	If PASSWORD3 are right.	0 a FF.
A04	LOCK		0 a FFFF.
A05	UNLOCK		0 a FFFF.

Programming total travels:

The parameter A1 allows the user to see the travels done by the controller.

How to program the lock code:

Example OT 110

Parameter C05 equal to 00 or(Unblock) and C04 to 00 or(Password2) you should program the parameter A03, PASSWORD2 equal to 01 and A05, UNLOCK equal to 10.

The parameter LOCK shall be equal to travel by 100 to stop the lift in case of preventive maintenance.

How to program the unlock code:

Parameter C03, PASSWORD1 equal to the lower digits from the OT and the parameter C04, PASSWORD2 equal to the Upper digits from the OT. Based on the example that means C03 equal to 10 and C04 equal to 1.