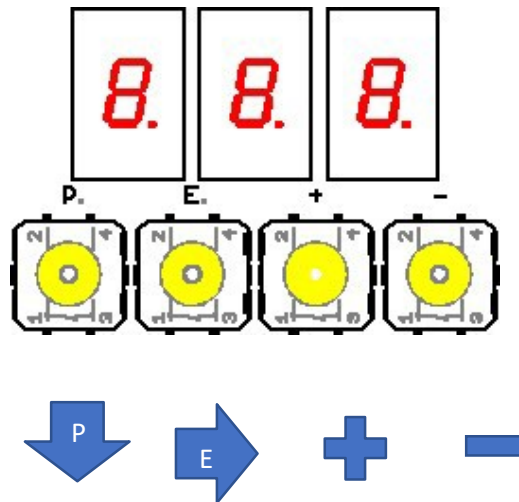


VERTICAL CONTROLS S1001A QUICK MANUAL



Menu Status:

		STATUS	DESCRIPTION
noP	0	NOT READY	The elevator is waiting to restart operation.
do	1	Opennig doors	
dC	2	Closing doors	The DCL is OFF.
STP	3	Stopping	Reaching floor level.
UP	4	Going UP	
dn	5	Going DN	
--(Fault Code)	6	Fault	
InS	7	Inspection	The Car is on inspection.
FUL	8	Full load	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 DN	
ser	12	Waiting series	Waiting the door series.
FrS	13	Fire Service	Phase 1 or Phase 2 is active.
Spd	14	Speed Governor	Speed Governor Contact.
doL	15	Door open	The DOL is ON.
Lrn	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.
rd	20	Ready	Ready to work.
DH	21	Door Hold	
LE	22	Re level and pre opening	
GEn	23	Generating set	Auxiliary power ON.
ACU	24	Access SW UP	

IND	25	Independent Service	
rt	26	Tension rescue	
NSo	27	Normal SW Open	
SAF	28	Safety Open	
ACC	29	Car Access SW	
HdB	30	Hatch Door By	The hatch doors are jumped.
CdB	31	Car Door 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	
dSE	36	Door Safety Edge	
ACd	37	Access SW Down	
	40	Car Call	
	41	Up Call	
	42	Dw Call	
	45	Elevator Position	45 + floor position.

Menu commands [C]:

	COMMAND	DESCRIPTION
C00	KEEP DOOR CLOSE	= 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*	

Menu Faults(F):

FAULT	DESCRIPTION
F01	<p>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>Encoder:</p> <p>The impulses coming from the encoder unit remain off.</p> <p>The car is not moving, or the encoder signal is broken.</p> <p>The number of impulses coming from the encoder unit overcome the internal counter of the CPU.</p> <p>Verify Encoder set up.</p> <p>Verify Encoder connections.</p>

F03	<p style="text-align: center;">Magnets:</p> <p>The travel distance between floors is overcome at least by 50%.</p> <p>The car is not able to find the floor level and reset the floor distance.</p> <p>The encoder unit is broken or getting noise.</p> <p>The selector unit is broken or set up improperly.</p> <p>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.</p> <p>If the Car goes to other floor and it is able to open the door, the number of tries restart on zero. If not, it trips 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.</p> <p>If the car is not able to close the door, it tries several times before it trips 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.</p> <p>Review the floor signals and the parameter P03.</p>
F07	<p style="text-align: center;">Door Monitoring:</p> <p>The door monitoring fault is active.</p> <p>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 closed and the DOL is ON.</p> <p style="text-align: center;">Verify gate SW,</p> <p style="text-align: center;">Verify short circuit on gate SW series, verify DOL.</p>
F08	<p style="text-align: center;">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.</p> <p>Verify connections and right sequence</p>

F09	<p style="text-align: center;">Landing Car:</p> <p style="text-align: center;">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 style="text-align: center;">Verify if landing devices run LED blinks faster than one second.</p> <p>Verify connections and right sequence 1-1, 2-2, on communication cable.</p> <p style="text-align: center;">Faulty board.</p>
F10	<p style="text-align: center;">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 intermediate floor and both slowdowns are ON.</p> <p style="text-align: center;">Verify slowdowns and connections.</p>
F11	<p style="text-align: center;">Parameter Error:</p> <p style="text-align: center;">One of the CPU parameters is not matching the back up memory.</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. 2 = Door Edge2 is ON. 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 style="text-align: center;">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 style="text-align: center;">The hatch door is open. 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 style="text-align: center;">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 style="text-align: center;">The Normal switch activated 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 style="text-align: center;">The elevator trips the low speed timer without getting into floor level.</p> <p style="text-align: center;">The travel between floors is not complete or is taking for too long.</p> <p style="text-align: center;">Verify OIL level.</p> <p style="text-align: center;">Verify selector set up.</p> <p style="text-align: center;">Verify speeds set up.</p>
F19	<p style="text-align: center;">High Speed Timer:</p> <p style="text-align: center;">The elevator trips the high speed timer without getting into floor level.</p> <p style="text-align: center;">Verify speed set up.</p> <p style="text-align: center;">Verify selector set up.</p> <p style="text-align: center;">Repeat self learning.</p>
F20	<p style="text-align: center;">Uncontrolled Movement:</p> <p style="text-align: center;">The car lost its floor level unexpectedly(UCM).</p> <p style="text-align: center;">There are no travel signals and the car moves out of the door zone.</p> <p style="text-align: center;">The car is out of floor level and is not able to recover it.</p> <p style="text-align: center;">Verify brake adjustments.</p> <p style="text-align: center;">Verify oil liking.</p> <p style="text-align: center;">Verify relevel adjustments.</p>

F21	<p style="text-align: center;">Door Zone:</p> <p style="text-align: center;">The door zone signal stays on during floor to floor travel.</p> <p style="text-align: center;">Verify door zone sensor.</p> <p style="text-align: center;">Verify door zone connections.</p>
F22	<p style="text-align: center;">Pressure Switch:</p> <p style="text-align: center;">The pressure switch sensor is active.</p> <p style="text-align: center;">Verify oil level.</p> <p style="text-align: center;">Verify valve block unit.</p> <p style="text-align: center;">Verify pressure switch sensor.</p> <p style="text-align: center;">Verify connections.</p> <p style="text-align: center;">Verify safety gear.</p>
F23	<p style="text-align: center;">Safety Input:</p> <p style="text-align: center;">The safety input(I11) is OFF.</p> <p style="text-align: center;">Verify safety chain.</p> <p style="text-align: center;">Verify rope gripper.</p>
F24	<p style="text-align: center;">COP Stop Switch:</p> <p style="text-align: center;">The COP stop switch is active.</p> <p style="text-align: center;">Verify stop switch.</p> <p style="text-align: center;">Verify connections.</p> <p style="text-align: center;">Parameter I17 shows the status.</p> <p style="text-align: center;">1=Stop switch active. 3=stop switch active.</p>
F25	<p style="text-align: center;">Car Safety Open:</p> <p style="text-align: center;">The car safety chain is open.</p> <p style="text-align: center;">LED SFC on board S0500A is OFF.</p> <p style="text-align: center;">Parameter I22 show the status.</p> <p style="text-align: center;">Verify top car station to see what car safety is open.</p>
F26	<p style="text-align: center;">Shaft Safety Open:</p> <p style="text-align: center;">The shaft safety is open.</p> <p style="text-align: center;">LED SFS on board S0500A is OFF.</p> <p style="text-align: center;">Parameter I22 show the status.</p> <p style="text-align: center;">Verify top safety circuit and connections.</p> <p style="text-align: center;">Verify top over travel limit, stops switch, hatch switches, final limits, stops switches,</p> <p style="text-align: center;">Hatch switches.</p>
F27	<p style="text-align: center;">Pit safety Open:</p> <p style="text-align: center;">The pit safety is open.</p> <p style="text-align: center;">LED SFP on board S0500A is OFF.</p> <p style="text-align: center;">Parameter I22 show the status.</p> <p style="text-align: center;">Verify top safety circuit and connections.</p> <p style="text-align: center;">Verify pit stop switch,</p>

Menu Parameters [P]:

	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 people.
P02	VEL COMPENSATION	It is used to use an intermedium speed when the lift is traveling between floors.	0 = No, one change speed magnet . 3 = Yes, use intermedium speed, two change speed magnets.
P03	STOPS	It is equal to the building floors.	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 brake..	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. $K = \frac{P}{3.1416 \cdot D \cdot R} \cdot T$ P= encoder impulses. D= Pulley diameter. R= Gear ratio. T= 1:1 , 2:1 o 4:1.	>=1 controller Encoder.
P14	HOMMING 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 FIRE FIGHTER FLOOR	It is the destination floor when the user activate the alternative fire recall signal.	0 and 31.
P25	FIRE FIGHTER FLOOR	It is the destination floor when the user activate the FIRE recall signal	0 and 31.
P26 P57	ACCESS FLOOR 00 ... ACCESS FLOOR 31	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
P58	Close LX	Close door Signal.	0= off 1 to 15 = Jogging. 16 = Close during travel.
P59	VOLUME	Adjust the volume of the voice	0 and 200.

P60	RESCUE TIME	Time to open and close the brake during a rescue operation.	0 = No able. >=1 x100 mSec.
P61	UNIVERSAL	The controller just pick up one call at once.	