

# AYBEYNET

## INSTALLATION AND USER MANUAL

VERSİYON : 1.0



AYBEY  
ELEKTRONİK



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AYBEYNET is a software package which allows you to monitor and manage parameters of the lift controller by a personal computer.

Before starting the application there must be either direct Ethernet or USB or internet connection between the controller and PC. The installation of this is explained in ETN-Ethernet Installation Manual. You should have been completed this connection to go on further.

## 1. Login Screen

When you click on the Aybeynet icon then Authorized password is asked to connect to the lift controller. The noted Port Name should be selected from *ComPort* part.



Comport: You should select the virtual COM port number you are using for ETN or USB connection.

LiftName:

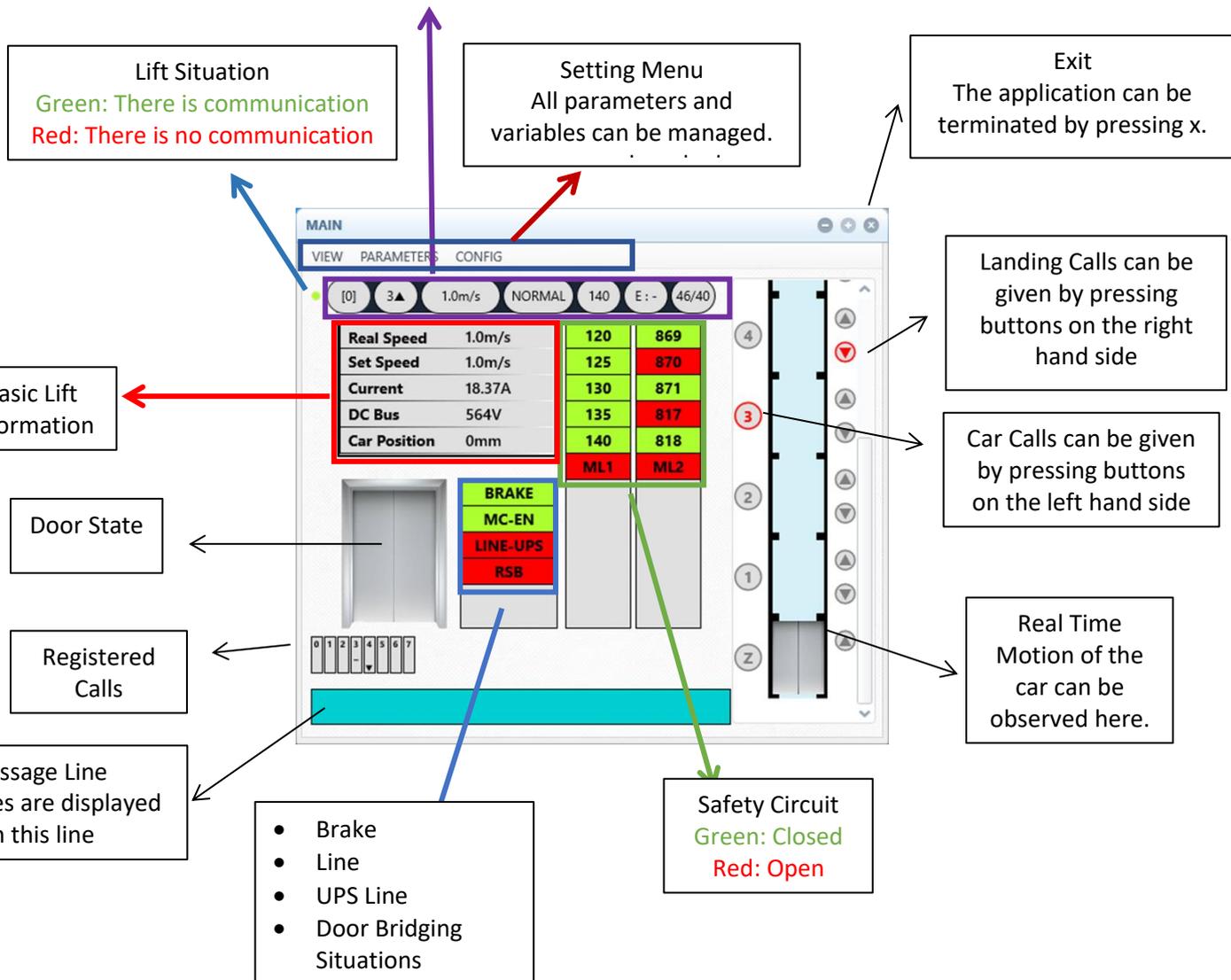
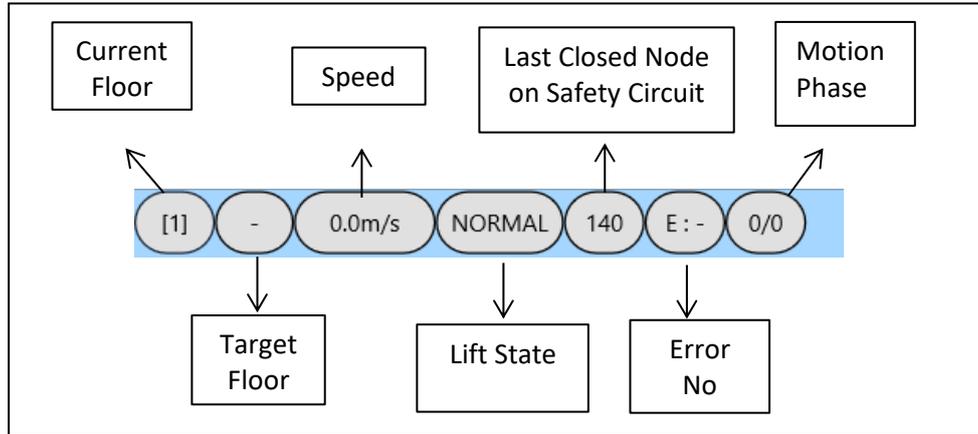
Lift Password:

After writing login informations you can press LOGIN button to start connection.

## 2. Main Screen

After login you will be faced with the main screen.

In this screen the state of the lift and some important state variables are shown.



On the main screen you can observe lift motion in the shaft real time, can give landing as well as car calls for any floor. Main state variables are displayed on this screen, too. To edit, monitor and manage variables, inputs, output and parameters you should enter **VIEW** and **PARAMETER** sections in the setting menu placed on the top line.

### 2.1. View Menu

View Menu is to observe variables, inputs, outputs, timers and error log. The data on the main screen will not be refreshed while view menü is open.

**A. ACTIVE STATE**

INPUTS			
120	DT5	VP3	
125	FOT	THR	
130	AL1	LDB	
135	KL1	WTM	
140	K1C	UCR	
141	BR1	917	
FKK	BR2	918	
PTC	SGC	DIK	
ML1	SGO	CAL	
ML2	DTP	802	
CNT	K22	PNB	
869	DT2	DOA	
870	AL2	DOB	
871	KL2	DPM	
817	K2C	SIM	
818	FT2	FE1	
500	BAT	FE2	
501	EKS		
550	HD		
551	HU		
BYP	MCI		
510	M0		
511	FR1		
KRR	FR2		
MKD	FRM		
MKU	FRC		
804	DSB		
805	VP1		
K20	VP2		

OUTPUTS	
BRAKE	O23(SCB.E6)
MC-EN	O24(SCB.E7)
LINE-UPS	O25(SCB.E8)
RSB	
O01(CON.S1)	
O02(CON.S2)	
O03(CON.S3)	
O04(CON.S4)	
O05(CON.S5)	
O06(CON.S6)	
O07(SPT.V1)	
O08(SPT.V2)	
O10(PWS.R8)	
O11(PWLR1)	
O12(PWLR2)	
O13(PWLR3)	
O14(PWLR4)	
O15(PWLR5)	
O16(PWLR6)	
O17(PWLR7)	
O18(SCB.E1)	
O19(SCB.E2)	
O20(SCB.E3)	
O21(SCB.E4)	
O22(SCB.E5)	

In this window you can observe the status of inputs and outputs.

A red square shows that the input or output is 0.

A green square shows that the input or output is 1.

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AYBEYNET

## B. ERROR LOG

(Lift1) ERROR LOG

ROW	ERROR NO	FLOOR...	DATE	DIRECTI...	MOD	DOOR 1	DOOR 2	CAUSE	STAGE	MPHASE	CAR POS
1	9 - 817+818 ARE OPEN	0	11.06.2020 13:48	-	NORMAL	CLOSE	CLOSE	0	0	0	0
2	31 - LOW VOLTAGE	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
3	39 - SPI FAULT	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
4	9 - 817+818 ARE OPEN	0	11.06.2020 10:26	-	NORMAL	CLOSE	CLOSE	0	0	0	0
5	39 - SPI FAULT	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
6	9 - 817+818 ARE OPEN	0	10.06.2020 17:15	-	NORMAL	CLOSE	CLOSE	0	0	0	0
7	39 - SPI FAULT	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
8	31 - LOW VOLTAGE	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
9	39 - SPI FAULT	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
10	9 - 817+818 ARE OPEN	0	10.06.2020 16:11	-	NORMAL	CLOSE	CLOSE	0	0	0	0
11	39 - SPI FAULT	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
12	9 - 817+818 ARE OPEN	0	10.06.2020 16:03	-	NORMAL	CLOSE	CLOSE	0	0	0	0
13	39 - SPI FAULT	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
14	31 - LOW VOLTAGE	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
15	39 - SPI FAULT	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0
16	9 - 817+818 ARE OPEN	0	10.06.2020 15:11	-	NORMAL	CLOSE	CLOSE	0	0	0	0
17	39 - SPI FAULT	0	11.06.2020 15:42	-	NORMAL		CLOSE	0	0	0	0

Receive completed.  
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Refresh Print Close

- All registered errors can be viewed on the screen.
- Date, time, position, motion and the state of the lift at the instant of occurrence of the fault can be seen to analyse the cause of the error.
- Clicking **Print** button sends error list to the printer.
- Clicking **Refresh** button refreshes error list.

## C. TIMERS

(Lift1) TIMERS

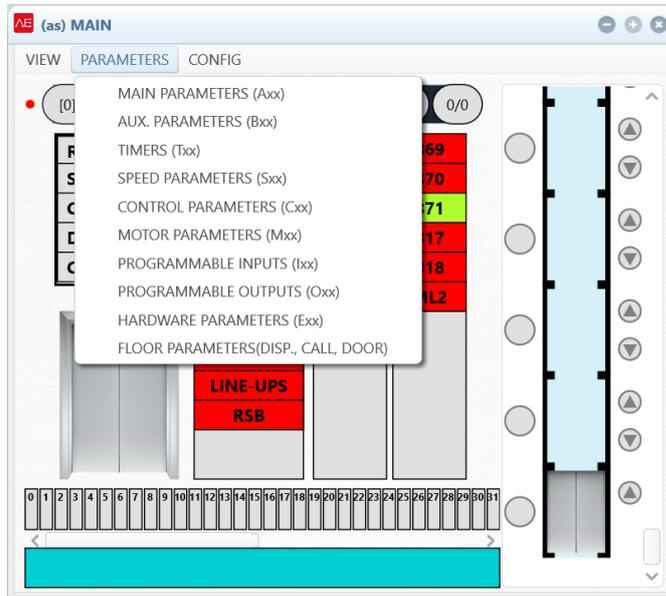
TIMERS	
T01 BUSY PERIOD	80
T02 PARK WAIT TIME	1010
T03 WAIT IN FLOOR	0
T04 RESERVED	0
T05 FLR PASS PERIOD	0
T06 OPEN WAIT PER.-1	50
T07 CONTACTOR WAIT START	3
T08 BRAKE WAIT START	0
T09 ZERO SPEED AT START	0
T10 START SPEED ACC.PERIOD	0
T11 START SPEED WAIT PERI...	0
T12 DC BRAKE PERIOD	0
T13 BRAKE DELAY	0
T14 CONT.DELAY AT STOP	0
T15 DTS BUT.DELAY-1	0
T16 RESCUE START DEL.	80
T17 LOCK WAIT PERIOD	5
T18 K20 PERIOD	0
T19 PHOTOCELL PER.-1	0
T20 DOOR OPEN PERIOD 1	35
T21 CLOSING PERIOD-1	0
T22 OPEN WAIT PER.-2	50

Close

Instantaneous values of all user defined timers can be watched in this window.

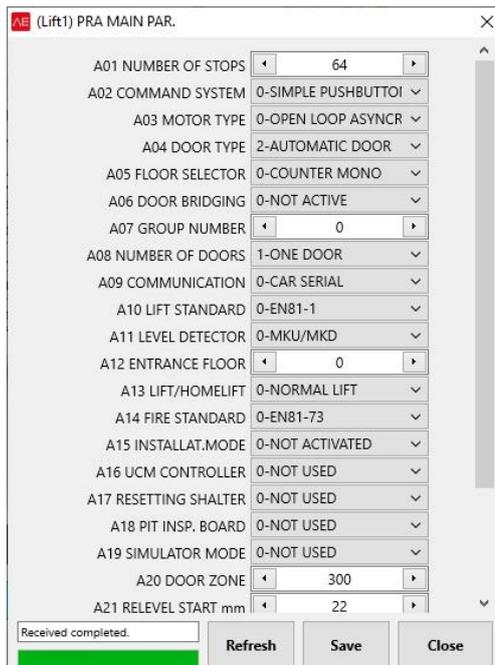
## 2.2. Parameters Menu

### A. PARAMETERS



Through this menu parameters can be observed and edited.

### B. MAIN PARAMETERS (Axx)



Main parameters, denoted by Axx, define the type and basic functions of the lift.

They can only be modified while the lift is resting.

### C. AUXILIARY PARAMETERS (Bxx)

AE (Lift1) PRB AUX. PAR.

B01 AFTER LOCK FAULT	1-BLOCK AT REPEAT
B02 SKIP SIMPLE ERRORS	0-CONTINUE
B03 BLOCKING	0-CAN BE BLOCK
B04 UCM ERROR BLOCK	0-CAN BE BLOCK
B05 MAX.ERROR REPEAT	15
B06 PARK DEFINITION	0-NO PARK FLOOR
B07 PARK FLOOR	0
B08 HALL CALLS INHIBIT	0-HALL CALLS ALLOW
B09 MAX.CABIN CALLS	8
B10 DOORS IN STOP=0	0-PASSIVE
B11 TWO DOORS SELECTION	0-TOGETHER ACTING
B12 BASE FLOOR	0
B13 RESERVED	0
B14 FIRE FLOOR 1	0
B15 FIRE FLOOR 2	0
B16 PTC CONTROL	0-NO PTC CONTROL
B17 PHOTOCCELL BYPASS	0-PASSIVE
B18 GONG SELECTION	0-GONG AT STOP
B19 MK DELAY	0
B20 ERS MK DELAY	0
B21 ID CONTROL	0-NOT USED
B22 VIP CONTROL	0-NOT ACTIVATED
B23 1.VIP FLOOR	0

Received completed.

Refresh Save Close

Auxiliary parameters, denoted by Bxx, define the various functions for the controller.

They can only be modified at any time.

### D. TIME PARAMETER (Txx)

AE (Lift1) PRT TIME PAR.

T01 BUSY PERIOD	80
T02 PARK WAIT TIME	1010
T03 WAIT IN FLOOR	60
T04 RESERVED	0
T05 FLR PASS PERIOD	250
T06 OPEN WAIT PER.-1	50
T07 CONTACTOR WAIT START	4
T08 BRAKE WAIT START	8
T09 ZERO SPEED AT START	3
T10 START SPEED ACC.PERIOD	4
T11 START SPEED WAIT PERIOD	3
T12 DC BRAKE PERIOD	3
T13 BRAKE DELAY	10
T14 CONT.DELAY AT STOP	3
T15 DTS BUT.DELAY-1	50
T16 RESCUE START DEL.	80
T17 LOCK WAIT PERIOD	5
T18 K20 PERIOD	22
T19 PHOTOCCELL PER.-1	35
T20 DOOR OPEN PERIOD 1	35
T21 CLOSING PERIOD-1	0
T22 OPEN WAIT PER.-2	50
T23 K22 PERIOD	22
T24 PHOTOCCELL PER.-2	37
T25 DOOR OPEN PERIOD 2	35

Received completed.

Refresh Save Close

Time parameters are user definable timers and denoted as Txx.

They can be modified at any time.

## E. SPEED PARAMETER (Sxx)

S01 NOMINAL SPEED	1.000
S02 RECALL SPEED	0.300
S03 LEVELLING SPEED	0.020
S04 INSP.NORMAL SPEED	0.300
S05 INSP.SLOW SPEED	0.050
S06 RESCUE SPEED	0.100
S07 RESETTNG SPEED	0.700
S08 CREEPING SPEED	0.060
S09 STARTING SPEED	0.000
S10 ACCELERATION	0.400
S11 ACC.START S-CURVE	0.250
S12 ACC.END S-CURVE	0.320
S13 DECELERATION	0.700
S14 DEC.START S-CURVE	0.600
S15 DEC.END S-CURVE	0.400
S16 STOPPING METHOD	0-SYNCHRONOUS MOTC
S17 STOP SPEED	0.000
S18 STOPPING REFERENCE	0-MEASURED SPEED
S19 STARTING MODE	0-PASIVE
S20 STOPPING DECELERATION	0.250
S21 STOP S-CURVE	0.500
S22 CREEPING PATH	0.000
S23 RESERVED	0.500

Speed parameters are store settings related to car and motor speed.

They can only be modified while the lift is resting.

## F. MOTOR PARAMETER (Mxx)

M01 ENCODER PULSE	1024.000
M02 MOTOR SPEED(m/s)	1.000
M03 MOTOR SPEED(rpm)	1500.000
M04 MOTOR FREQUENCY	50.000
M05 MOTOR CURRENT NOMINAL	10.000
M06 MOTOR VOLTAGE	380.000
M07 MOTOR COS(phi)	0.850
M08 NUMBER OF POLES	4.000
M09 CURRENT W/O LOAD	35.000
M10 STATOR RESISTANCE(Rs)	0.700
M11 RESIDUAL INDUCTANCE(Ls)	100.000
M12 ROTOR RESISTANCE(Rr)	0.700
M13 MAGNET.INDUCTANCES(Lm)	110.000
M14 ROTOR TIME CONSTANT(Tr)	85.000
M15 ENCODER OFFSET	0.000
M16 ENCODER TYPE	0-INCRIMENTAL
M17 ENCODER DIRECTION	1-CLOCKWISE
M18 TUNING MODE	0-STATIONARY TUNINC
M19 MOTOR DIRECTION	0-SAME DIRECTION

Motor parameters are store settings related to motor.

They can only be modified while the lift is resting.

## G. PROGRAMMABLE INPUTS (Ixx)

Terminal	Assigned Function
I01(I1)	02-870
I02(I2)	03-871
I03(I3)	00-FREE
I04(I4)	00-FREE
I05(I5)	00-FREE
I06(I6)	00-FREE
I07(I7)	00-FREE
I08(I8)	00-FREE
I09(I9)	00-FREE
I10(I10)	00-FREE
I11(I11)	00-FREE
I12(I12)	00-FREE
I13(I13)	00-FREE
I14(I14)	00-FREE
I15(I15)	00-FREE
I16(I16)	00-FREE
I17(I17)	00-FREE
I18(I18)	00-FREE
I19(I19)	00-FREE
I20(I20)	00-FREE
I21(I21)	00-FREE
I22(I22)	00-FREE

In this screen you can assign input functions to programmable input terminals.

You can select any input function in combobox to assign the selected terminal.

## H. PROGRAMMABLE OUTPUTS (Oxx)

Terminal	Assigned Function
O01(CON.S1)	01-MC CONTACTOR
O02(CON.S2)	00-FREE
O03(CON.S3)	00-FREE
O04(CON.S4)	00-FREE
O05(CON.S5)	00-FREE
O06(CON.S6)	00-FREE
O07(SPT.V1)	00-FREE
O08(SPT.V2)	00-FREE
O09(RESERVE)	00-FREE
O10(PWS.R8)	00-FREE
O11(PWL.R1)	00-FREE
O12(PWL.R2)	00-FREE
O13(PWL.R3)	00-FREE
O14(PWL.R4)	00-FREE
O15(PWL.R5)	00-FREE
O16(PWL.R6)	00-FREE
O17(PWL.R7)	00-FREE
O18(SCB.E1)	00-FREE
O19(SCB.E2)	00-FREE
O20(SCB.E3)	00-FREE

In this screen you can assign output functions to programmable output terminals.

You can select any output function in combobox to assign the selected terminal.

## i. HARDWARE PARAMETERS (Exx)

The screenshot shows a configuration window titled '(Lift1) PRE HARDWARE PAR.' with a list of parameters and their values:

E01 LANGUAGE	0-TURKCE
E02 BUTTON CONTROL	0-NOT ACTIVATED
E03 LED DISPLAY	0-FLOOR NO
E04 ARROW OUTPUT	0-MOTION DIRECTION
E05 SERIAL CHANNEL 1(SP1)	1-PC COMMUNICATIOI
E06 SERIAL CHANNEL 2(SP2)	1-PC COMMUNICATIOI
E07 CAR CAN CHANNEL	0-CANO
E08 LANDING CAN CHANNEL	0-CANO
E09 GROUP CAN CHANNEL	0-CANO
E10 ENCODER CAN CHANNEL	0-CANO

At the bottom, there is a status bar with 'Received completed.', a green progress bar, and buttons for 'Refresh', 'Save', and 'Close'.

Hardware parameters, denoted by Exx, define some settings related to peripherals on the device

They can only be modified while the lift is resting

## J. CONTROL PARAMETER (Cxx)

The screenshot shows a configuration window titled '(Lift1) PRC CONTROL PAR.' with a list of parameters and their values:

C01 CARRIER FREQUENCY	10.000
C02 ENCODER FILTER	0-1 ms
C03 Kp ZERO SPEED	16.000
C04 Kd ZERO SPEED	0.000
C05 Kp AT START	16.000
C06 Ti AT START	0.000
C07 Kp LOW SPEED	16.000
C08 Ti LOW SPEED	0.000
C09 Kp HIGH SPEED	4.000
C10 Ti HIGH SPEED	0.000
C11 PI LOW LIMIT	0.000
C12 PI HIGH LIMIT	0.000
C13 Kp CURRENT	1.000
C14 Ti CURRENT	300.000
C15 DC BRAKE LEVEL	10.000
C16 V/F START SPEED	0.100
C17 VF START TORQUE	0.160
C18 TORQUE Kp	1.000
C19 TORQUE Ti	0.000
C20 TUNING CURRENT	0.000
C21 FIELD WEAKENING	0-PASSIVE
C22 RESCUE DIRECTION	0.000
C23 PULSE/mm	20.000

At the bottom, there is a status bar with 'Received completed.', a green progress bar, and buttons for 'Refresh', 'Save', and 'Close'.

Control parameters, denoted by Cxx, define control parameters for motor driver.

They can only be modified while the lift is resting

## K. FLOOR PARAMETERS (DISPLAY, DOORS and ACCESS)

In this screen you can select display characters for each floor.

In this screen you can select which door will be opened at each floor. This option can be used only if there are two doors in car.

In this screen you can set Access rights for each floor as car calls as well as landing calls.

## 2.3. Config Menu

### A. ALL PARAMETER LOAD/SAVE

- **Parameter list** can be saved into a **file** or restored from a file.
- Parameter list can be **printed** to save a hardcopy.

-Figure 2.21 Parameter Load and Save Screen-