

PRO2500-EKO ASANSÖR KUMANDA KARTI (LIFT CONTROL CARD)

> KULLANIM KILAVUZU (USER MANUEL)

> > EN81-1/2

## **SAFETY NOTES**

PRO2500-EKO Control card, comply with EN81-1/2 standard, is an integrated and electronic control card that has been designed for drive type hydraulic and roped Lifts. Users can make the programs of control card according to control and Lift system utilised by them by means of the keyboard on the LCD screen. The system can make level renovation and early door opening with built-in door bridging relays. There are built-in door relays for double automatic doors.

There is built-in phase control circuit.

For the Lift system to be electrically complies with EN81-1/2 standards:

- $\checkmark$  the electrical connections of the control card and control panel should be appropriate.
- Check certainly whether there is earth connection or not. Connect especially control panel, motor body, all safety device, cabin and its suspension to the earth line.
- $\checkmark$  Do not remove the glass housing without cutting the power of the control card.
- ✓ Dust, dirt, oil and rusting arising from the long-time working may prevent the good operation of the safety devices. During periodic maintenances, necessary cleaning should be performed.
- ✓ If your motor has mechanical brake switches, connect them.

This document has been prepared to inform the users. PROSIS can make changes to the content of the document, if required.

### LIST OF PARAMETERS

00-Lift Type 01-Command Type 02-Door Type 03- Auto Door At Floor 04- Auto Door At Floor 05- One Door Full Automatic 06- Special Door Setting 07- Number of Floors 08- Cabin Serial Card 09-Phase Control 10- Phase Level **11-**Ptc Control 12-Krc (Contact Feedback) 13-Position Reset 14- Revision Movement Limit swich **15-**Dijital Setting 16-Display Output 17-Maximum Car Call 18- Number of Basement 19- Fire Stop 20- Fire Park Floor 21- Park Going Time 22- Busy Time 23- Waiting Time on the Floor 24- Auto Door Opening Time 25-Waiting Lock 26-Door Still Open Error 27-Waiting Photocell 28-Fast Cruising 29-Slow Cruising 30-Rp Delay 31-Plug Delay 32-Lock Delay **33-**Maintenance Time 34-Change Password 35-Counter Type 36-Factory Settings

## **TECHNICAL SPECIFICATIONS**

Dimensions	181 × 150 × 22
Protection Class	IP20
Operation Temperature	±0 - +60 °C
Network Control Inputs	3 x 380V, 50Hz, N
Control Feed Voltage	24 ± 5 Vdc
Power Usage	400mA 10W, 24V için
Security Circuit Voltage	230Vac
Control Signal Inputs	24 ± 5 Vdc
Control Signal Outputs	24 ± 5 Vdc Short-Circuit Protection

✓ 2 line 16 character LCD display and 4 button keyboard

- $\checkmark$  RS-485 serial comminucation for serial system connection with cabin
- ✓ Including phase sequential motor protection circuit
- ✓ Including in and output control of 2 automatic dors
- ✓ Short circuit protected digital and signal outputs
- ✓ Setting of indicator possible via menu: 7 segment and gray code

## **BUTTONS FEATURES**



Menu can be set easily via the keypad recording error records are given the desired lift station can be observed.

- Introduction to Menu: Press the Enter key to enter the menu.
- Menu exit: Esc key and then press the Enter key on the menu çıkınız.
- Introduction Manuel motion : 3 seconds by pressing the Esc key to enter the action on the card revision
- Moving in the Menu: Up and down arrow keys to move within the menu.

## PRO2500-EKO CONTROL CARD TERMINAL IN/OUTPUTS

R,S,T	Main Supply
МР	Mains Neutral
10A	Safety Circuit Neutral
120	Stop Circuit
130	Door Plug Contact Circuit
140	Door Lock Circuit
PTC	Motor Thermistor & Panel Thermostat, As long as there is a signal
FIC KAE	
K15	
К3	Door Close Signal
К5	Door Open Signal
LO	Door Pump Relay Contact Joint
LA	Door PumpRelay Contact Openness
RPA	Engine Contactor Output is Used in VVVF and Hydraulıc (RPA,RPB)
RPB	Engine Contactors input (RPO RPA)
1	Cabine feed input
2	Cabine light output
S1A	Cabin Serial Communication Terminals (With PRO EKO SERIAL cards)
S1B	Cabin Serial Communication Terminals (With PRO EKO SERIAL cards)
11	Common RU1, RU2, RH, RF Contactors Feed Voltage
RU2	Up Direction Contactor
RU1	Down Direction Contactor
RH	High Speed Contactor
DE	Low Snood Contactor
ĸr	
100	Control Circuits Feed (+24Vdc)
1000	Control Circuits Feed (0V)
	Feedback Input of the main contactor. The normally closed contacts of the 100 signal of the main contactor must be connected serially to this entry
KRC	,

## PRO2500-EKO SERIAL CARD TERMINAL IN/OUTPUTS

S1A	Cabin Serial Communication Terminals	
S1B	Cabin Serial Communication Terminals	
1000	Control Circuits Feed (0V)	
100	Control Circuits Feed (+24Vdc)	
2	Cabine light output	
1	Cabine feed input	
К3	Door Close Signal	
К5	Door Open Signal	
K15	Common signal of door open and door close	
K16	Door open limit signal input	
K19	Door Cloose limit signal input	
401410	Cabin call input	
DD	Floor Signal output	
A,B,C,D,E,F,G,2G	7 segment dijital output	
32	Upward Arrow Light	
31	Downward Arrow Light	
02	Out of Comies Lights	
02	Out of Service Lights	
12	Busy list output	
500	Bevision Downward Button	
500		
501	Revision Unward Button	
501		
803	Carload	
804	Over load signal input	
805	Full load signal input	
VAT	Vatman Signal input	
K20	Door open, photocell signal input	
DTS	Door Cloose button Signal input	
G0,G1,G2,G3	Gray, Binary Code Output	

# PRO2500-EKO TERMINAL CARD IN / OUTPUTS

X1X10	Floor Call İnput
869P	Revision Key (to Controller Card)
869K	Revision key (Hand Terminal)
500	Revision Downward Button
501	Revision Upward Button
817	Down Obligatory limit Magnetic Switch
818	Up Obligatory limit Magnetic Switch
M1	Floor counter magnetic switch input
142	Floor stopper magnetic swich input
190	Simple command call partner
869	Revision Key (from the Revision Box)
YAN	Fire Alarm Contact
DEP	Earthquake Alarm Contact
S1A	Cabin Serial Communication Terminals (With PRO EKO SERIAL cards)
S1B	Cabin Serial Communication Terminals (With PRO EKO SERIAL cards)
К20	Door Open Button & Door Jam & Photocell Contact
DTS	Door Close Button
K16	Door open limit signal input
K19	Door Cloose limit signal input
A,B,C,D,E,F,G,2G	7 segment dijital output
12	Busy Lights
31	Downward Arrow Light
32	Upward Arrow Light
02	Out of Service Lights



#### **OPENINGSCREEN**

PROSIS PRO2500-EKO	
SERIAL NO: 01.01.2014	

When power is given the system, the "SPLASH SCREEN" will be appeared on the LCD screen. On this screen, the software version of the card and serial number are shown. After waiting for 2 seconds, the screen will select the display called as "MAIN SCREEN".

#### MAIN SCREEN

WAIT	CALL
D:10	+24.0 V

On the main screen, the station number where the lift is and the supply tension of control card are shown

#### **REVISION FROM THE CARD**

REVISI	ON CARD
D:10	+24.0 V

Take the lift to the position of revision from card by pressing on ECS button for 2 seconds and then move it by up-down buttons.

#### **RECORD FROM BUTTONS**

Manuel Call ==>10

D:15 +24.0 V

When press U-Down button, manual record monitor will appear. Select the station and then press ENTER button.

	<b>00</b> -Lift Type VVVF SPEED	You can set your lift drive type by this parameter.
1 SPEE 2 SPEE ROPED	<b>D LIFT :</b> For single-speed roped lifts, this <b>D LIFT :</b> For double-speed lifts, this sett <b>VVVF:</b> Asenkron machine	s setting should be selected. ing should be selected.
	01 Commond Turns	
	Simple Command	Set your elevator command type here.

**Simple Command :** The cabin and floor buttons are connected parallely. No other except the one registration is kept in memory.

**Mixed Collective** : The cabin and floor buttons are connected parallely. Registrations are kept in memory. **Down Collective :** The cabin and floor buttons are connected seperately. Cabin registrations are collected from both sides. Floor calls are collected when when cabin moves in downward direction.

**Full Collective (both ways) :** Cabin registrations and the up and down buttons at the floors are connected seperately. Cabin registrations and floor calls are collected in appropriate manner of movement direction.

**02-** Door Type Swing Door

Set the open-close signal type for automatic doors here.

Swing Door : Only for elevators that have no automatic door.

Aut. Unlimited : Only used for elevators with automatic unlimited cabin doors.Aut. limited : Only used for elevators with automatic limited cabin doorsFull Aut. Unlimited : Only used for elevators with full automatic unlimited cabin doors.

Full Aut. limited : Only used for elevators with full automatic limited cabin doors.

According to the EN 81-1/2 standarts in states of emergency stop, revision and take back automatic doors must remain stationary

03- Aut.Door.At.Floor

**Closed Standby** 

Set the open or closed position of the automatic door when waiting at floor.

04- Aut.Door.At.Park

Wait closed

Set the open or closed position of the automatic door when waiting at park.



# **12-** KRC Contact Feedback Active



Set here the bypassing of the contact feedback error. The controller card does not detect any contactor adhesion when it's cancelled. If it is cancelled our company is not responsible.

**ACTIVE:** Activating the contact feedback error **CANCEL:** Bypassing the contact feedback error

Even when there's a power blackout the controller card will remember its last position. But in some special cases when the power returns, a position reset may be wanted. In that case the elevator will go until it reaches the 817 limit switch of the bottom floor. When it reaches

the bottom floor, the floor counter will reset. For example: with systems that have battery charged rescuers, this parameter can be activated to reset the position.

ACTIVE: Activates it. CANCEL: Deactivates it.

**14-**Rev. Limit Switch Until limit switch

elevator will go to its floor.



Set the movement type of the up and down limit switches in revision.

**Until Limit switch:** When limit switches are enabled the elevator will stop before reaching its floor. **Until Floor:** Even when limit switches are enabled the

When the floor number is blinking, set the floor number with the UP-DOWN buttons till you come to the floor number you want to change. Press the ENTER button and next you will see the digits blinking. Set the value you like. When finished exit with the exit button. Or if you

want to set another stop/floor, press the enter button, when floor number is blinking, repeat the steps. **7 Segment indicator** 

-4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 A, B, C, D, E, F, H, J, L, N, O, P

**16**-Display Output Normal

**17-**Max. Call Reg. 010

**18**-Number of basement 000

Set the display output of the PRO EKO controller card and PRO EKO SERIAL card.

7 Segment output Normal output. Gray code output Gray code output.

Set the maximum amount of calls that can be registrated from within cabin. When this number is reached it stops registrating any calls from within cabine.

**01 - 10** Set the number of stops between the minimum and maximum.

Set the number of basement here.

If the elevator is down collective, the floors that are under the basement that is set, it will be up collective.

Note: Used in command types except for down collective.



**23**-Waiting Time at Floor 008 Seconds

Set the waiting time before going to other registrations while collecting.

**3 - 15** Seconds Set the waiting time at floor between the minimum and maximum

According to the EN81-1 and EN81-2 standarts, elevators with manual doors must have a waiting time of al least 2 seconds when moving again after reaching its floor.

On elevators with simple command (non-collective) this parameter must me equal to the "CABIN LIGHT" time and must be at least 2 second

**24**-Open Door Time 15 Seconds

Set the time from opening till closing of the automatic door.

05 – 20 Seconds Set the door open-close time between the minimum and maximum.

<b>25-</b> Lock waiting 008 Seconds	Set the maximum time to wait for the door lock signal (140) after getting the door closed signal. <b>8 - 30</b> Seconds Set the lock waiting time between the minimum and maximum.
<b>26-</b> Door Still Open Error 015 Seconds	If after the time set in this parameter the door is not closed yet the control panel will go out of service. It is possible to choose to bypass this function. <b>0 - 250</b> Seconds Set the time for passing the door still open error between the minimum and maximum.
<b>27</b> -Photocell Waiting time 003 Seconds	Set the time of waiting for the photocell signal to close the door after the opening of the automatic door. <b>02 – 05</b> Seconds Set the photocell waiting time between the minimum and maximum.
<b>28-</b> Fast Cruising 015 Seconds	Set the maximum time of cruising between 2 stops. If this time should be exceeded, the system automatically stops the movement of the cabin and blocks it.

According to the EN81-1 / 2 standards motor operation time work must not exceed the smaller of the following:  $\checkmark$  45 seconds

- ✓ Longest cruising distance +10 seconds
- ✓ If longest cruising distance is less than 10 seconds, the timeout should be at least 20 seconds.

**29**-Slow Cruising 015 Saniye

Set the maximum time of slow cruising from the moment it meets the stopper of the target floor. If this time should be exceeded, the system automatically stops the movement of the cabin and blocks it.

**0 - 100** Saniye Set the slow cruising time between the minimum and maximum.

**30**-RP Delay 02600

**31**-Plug delay 00600

**32**-Lock <u>Delay</u> 00100 Miliseconds It could be demanded with roped VVVF systems to delay the fall of the main contactor. In such cases, the RP delay of the relay output is set by this parameter. **00000 – 25000** Miliseconds Set the contactor delay time between the minimum and maximum.

Set here the waiting time after the 130 circuit. **00000 – 25000** Miliseconds Set the plug delay time between the minimum and maximum.

Set the maximum waiting time for arrival of the lock (140) signal after the door closed signal.

0 - 2000 Miliseconds Set the lock delay time between the minimum and maximum.

**33-**Maintenance Time 200 Days

minimum and maximum.

**34-**Change Password

For every day the card operates the value of this parameter drops by one. For example, if it is set for 45 days, this parameter will show a value of 15 when 30 days have passed. After 45 days the value will be 0. **45 - 250** Days Set the maintenance time between the

Set or change the password code here.

**1\_0\_0\_0\_0** If the display looks like this, the password is in activated.

**35**-Counter Type M1

Set here your selection of the elevator floor sensor. **Standard M0:** Standard M0 counter. **Standard M1:** Standard M1 counter.

**36-**Factory Settings

Here you can cancel your settings and return to factory settings.

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