



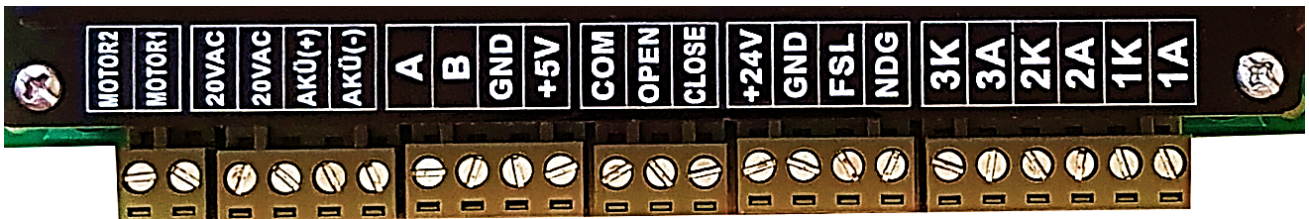
## Automatic Door Control Board DC – 200 User Manual

### General Setting

<b>Supply voltage</b>	20VAC* (18 – 22VAC)
<b>Battery supply</b>	Two 12V battery, 1.3A
<b>Motor type</b>	GEAR MOTOR - 24VDC
<b>Encoder</b>	2-channel encoder (Works with a single signal)
<b>Control signal</b>	Open signal (O), Close signal (C), Common signal (CM)
<b>Photocell and Floor signal</b>	FSL FLOOR (24V and GND can be taken from the board).
<b>Relay output terminal</b>	Door fully opened → (1A, 1K) Door fully closed → (2A, 2K) Door reopened → (3A, 3K)

\* A high power transformer is recommended.

### Connections



1

#### Elevator control terminal

(O) Open signal, (C) Close signal, (CM) Common signal,

2

#### Encoder A and B pulse inputs

The connection of A and B does not matter (it can even work with a single-channel encoder if necessary). The board automatically detects the encoder type.

3	<b>Supply voltage</b> 20VAC (18 – 22VAC) is suitable. <b>Note:</b> A high power transformer is recommended. If the door gets stuck, the voltage may drop if the transformer cannot provide the required current. 24V AC can also be used but is not recommended.
4	<b>Mortor Connections</b> <b>Note:</b> The direction of the door movement and the direction displayed on the screen must be the same. If not, reverse the motor connections.
5	<b>Photocell and NDG signal</b> 24V and GND can be taken from the board.

### Key functions

Up key	1) Enter MANUAL MODE. 2) Used to navigate through MENU pages and increase parameters.
Down key	1) Enter DEMO MODE. 2) Used to navigate through MENU pages and decrease parameters.
Right key	1) Identification. 2) Used to access any setting in the MENU pages.
Left key	1) Enter MENU. 2) Used to return or exit in the MENU pages.

### MENU pages

1. Closing door	This is the first page of the MENU and shows the parameters for the door closing settings.
2. Opening door	Shows the settings for opening the door. You can access this page with the Enter key.
3. Pressure settings	Shows the pressure settings for the motor and door.
4. Language	Used to select the display language. (TURKISH or ENGLISH)
5. Advanced settings	Used for advanced settings. A password is required to access this page.
6. Factory reset	The system will return to factory settings.

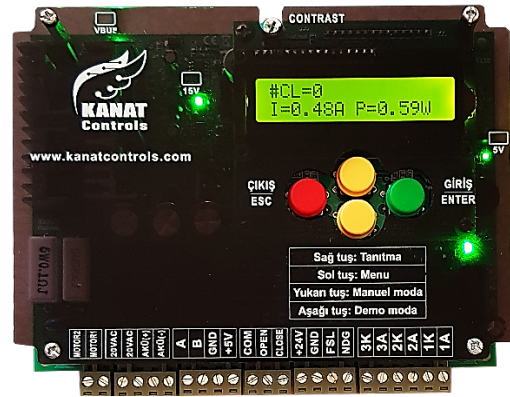
MENU settings parameters		
<b>1. Closing door</b>	1.1. START SPEED	Adjusts the initial speed during door closing.
	1.2. START LENGTH	Adjusts where the door will accelerate during closing.
	1.3. MIDDLE SPEED	The middle speed of the door closing. The door reaches the highest speed in the middle.
	1.4. END SPEED	Adjusts the speed in the final section during door closing. Ensures the door closes smoothly.
	1.5. END LENGTH	Adjusts the distance from which the speed will decelerate in the final section during door closing.
<b>2. Opening door</b>	2.1. START SPEED	Adjusts the initial speed during door opening.
	2.2. START LENGTH	Adjusts where the door will accelerate during opening.
	2.3. MIDDLE SPEED	The middle speed of the door opening. The door reaches the highest speed in the middle.
	2.4. END SPEED	Adjusts the speed in the final section during door opening. Ensures the door opens smoothly.
	2.5. END LENGTH	Adjusts the distance from which the speed will decelerate in the final section during door opening.
<b>3. Pressure settings</b>	3.1. OPEN PRESSURE	Adjusts the pressure to keep the door open.
	3.2. CLOSE PRESSURE	Adjusts the pressure to keep the door closed.
	3.3. MOTOR PUSH (OP)	Adjusts the pressure force when an obstacle is detected during door opening.
	3.4. MOTOR PUSH (CL)	Adjusts the pressure force when an obstacle is detected during door closing.
	3.4. Barrier Time	Adjusts how long the set pressure force will continue when the door opens or closes. (Maximum 3 seconds)
<b>4. Language</b>	1. TÜRKÇE 2. ENGLISH	Select the language with the Enter key.
<b>5. Advanced settings</b>	1. MAIN SPEED 2. OPEN IGNORE 3. CLOSE IGNORE 4. SIGNAL TYPE 5. RESET #CLOSE 6. SET PARAMETER	A password is required to access this page.
<b>6. Factory Reset</b>	The system will return to factory settings.	

- The start speed can be adjusted up to a maximum of **40%** and cannot be higher than the middle speed.
- The end speed can be adjusted up to a maximum of **10%**.

- The end length can be adjusted up to a maximum of **20%**.
- The open pressure and close pressure can be adjusted up to a maximum of **12%**.

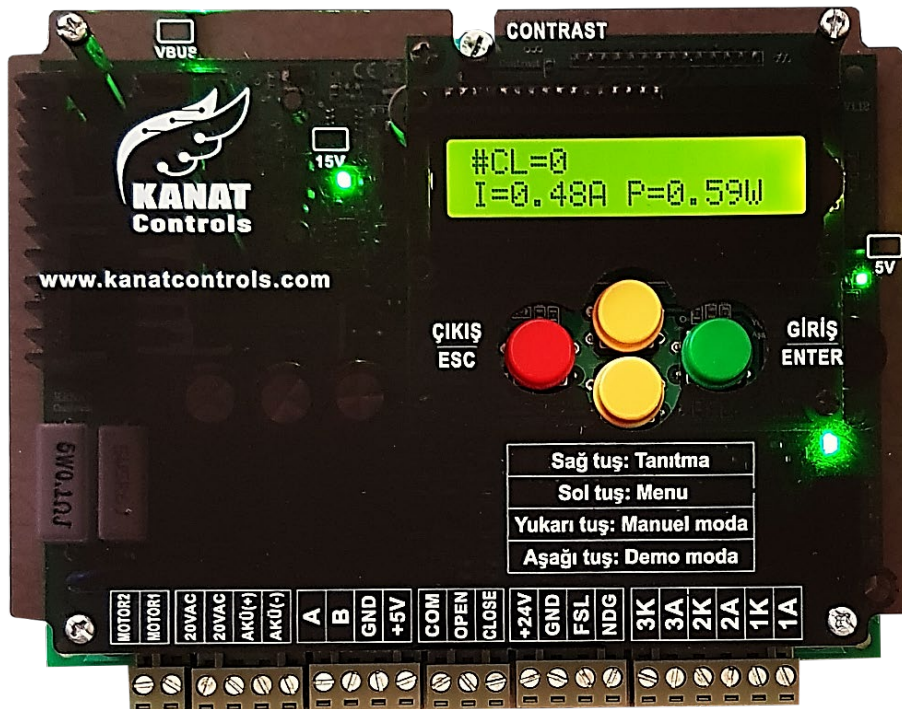
## Summary

Right key	Identification
Left key	MENU
Up key	Manual mode
Down key	Demo mode



**Warning:** The direction of the door movement and the direction displayed on the screen must be the same. If not, reverse the motor connections.

**Warning:** During the identification process, there should be no obstacles or obstructions in the path of the door. The door must fully open and close during this process.



Errors		
Error list	Description	Beep sound
<b>Error01</b>	Check the connections of the motor and encoder again. If the motor has moved, check the connections of the encoder.	One per second
<b>Error02</b>	<p>The elevator door does not fully open or close during this time:</p> <ol style="list-style-type: none"> <li>1. There must be an obstacle in the path of the door (especially in the final sections).</li> <li>2. The inner door and the outer door do not work in sync. The outer door closes, but the inner door does not, and the board detects an obstacle.</li> </ol>	Two per second
<b>Error03</b>	<p>The system cannot complete identification and enters the MENU:</p> <ol style="list-style-type: none"> <li>1. The door settings are not suitable. Reset the board to factory settings and re-adjust the parameters if necessary.</li> <li>2. Check the elevator door again. There should be no obstacles in the path of the door during the identification process. The door must fully open and close each time.</li> <li>3. If there is a problem with the motor encoder, the system cannot complete identification.</li> </ol>	Beeps five times and enters the MENU afterwards