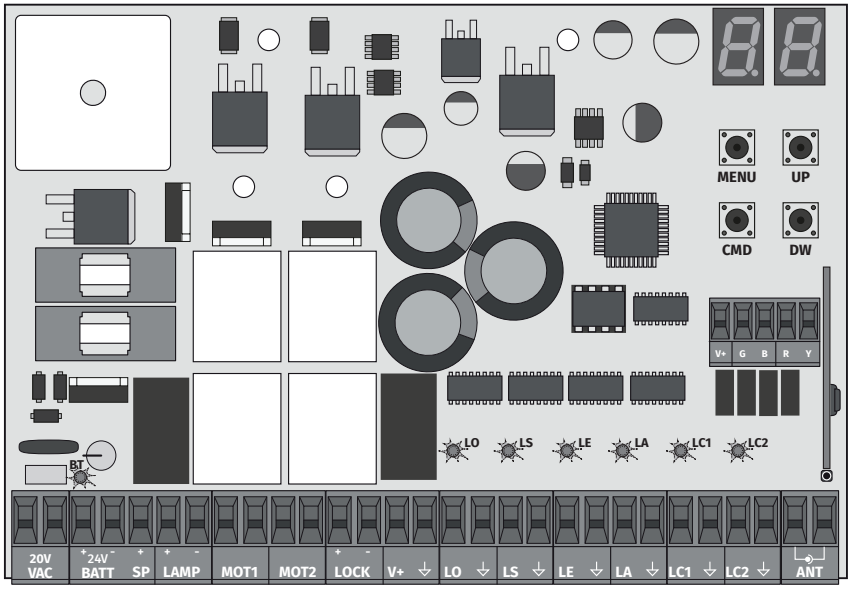
PORTUGAL

EN

MC62

USER'S AND INSTALLER'S MANUAL



COMPATIBLE WITH MCONNECT LINK

Motorline® PROFESSIONAL

v2.0 REV. 12/2023
HW: MC62_V.0.3.7 | FW: MC62.V1.Rev116

01. SAFETY INSTRUCTIONS
3A

02. CONTROL BOARD
CHARACTERISTICS 5B
RECOMMENDATIONS PRIOR TO PROGRAMMING 6A

03. INSTALLATION
INSTALLATION OF MCONNECT LINK (OPTIONAL) 6B
BASE INSTALLATION PROCESS 7A
REMOTE CONTROLS 7B
FUNCTIONS 8A
FUNCTIONS MENU "P" 8B
FUNCTIONS MENU "E" 9A

04. PROGRAMMING "P"
P0-COURSE PROGRAMMING 9B
P1-DECELERATION TIME ADJUSTMENT 10A
P2-FORCE AND SENSITIVITY ADJUSTMENT 10B
P3-PEDESTRIAN COURSE TIME 10B
P4-PAUSE TIME AND GATES DELAY 11A
P5-PHOTOCELLS 1 PROGRAMMING 11A
P6-PHOTOCELLS 2 PROGRAMMING 11B
P7-OPERATING LOGIC 11B
P8-FLASHING LAMP 12A
P9-REMOTE PROGRAMMING 12A

05. PROGRAMMING "E"
E0-HUMAN PRESENCE 12B
E1-SOFT START 13A
E2-COURTESY LIGHT TIME 13A
E3-FOLLOW ME 13B
E4-COURSE TIME ADJUSTMENT 13B
E5-BRAKE/LOCK/PUSH 14A
E6-DECELERATION SPEED 14A
E7-MANUEVERS COUNTER 14B
E8-RESET - RESET FACTORY VALUES 15A
E9-RGB OUTPUT 15A

00. CONTENT INDEX

06. DISPLAY
DISPLAY INDICATIONS 15B

07. TROUBLESHOOTING
INSTRUCTIONS FOR FINAL CONSUMERS / TECHNICIANS 16

08. CONNECTIONS SCHEME
CONNECTIONS MAP 17
ACTIVE PHOTOCELL TEST 18

CE	This product is certified in accordance with European Community (EC) safety standards.
RoHS	This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment and with Delegated Directive (EU) 2015/863 from Commission.
	(Applicable in countries with recycling systems). This marking on the product or literature indicates that the product and electronic accessories (eg. Charger, USB cable, electronic material, controls, etc.) should not be disposed of as other household waste at the end of its useful life. To avoid possible harm to the environment or human health resulting from the uncontrolled disposal of waste, separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Home users should contact the dealer where they purchased this product or the National Environment Agency for details on where and how they can take these items for environmentally safe recycling. Business users should contact their vendor and check the terms and conditions of the purchase agreement. This product and its electronic accessories should not be mixed with other commercial waste.
	This marking indicates that batteries should not be discarded like other household waste at the end of their useful life. Batteries must be delivered to selective collection points for recycling.
	The different types of packaging (cardboard, plastic, etc.) must be subject to selective collection for recycling. Separate packaging and recycle it responsibly.
	This marking indicates that the product and electronic accessories (eg. charger, USB cable, electronic material, controls, etc.) are susceptible to electric shock by direct or indirect contact with electricity. Be cautious when handling the product and observe all safety procedures in this manual.

GENERAL WARNINGS

- This manual contains very important safety and usage information. Read all instructions carefully before beginning the installation/ usage procedures and keep this manual in a safe place that it can be consulted whenever necessary.
- This product is intended for use only as described in this manual. Any other enforcement or operation that is not mentioned is expressly prohibited, as it may damage the product and put people at risk causing serious injuries.
- This manual is intended firstly for specialized technicians, and does not invalidate the user's responsibility to read the "User Norms" section in order to ensure the correct functioning of the product.
- The installation and repair of this product may be done by qualified and specialized technicians, to assure every procedure are carried out in accordance with applicable rules and norms. Nonprofessional and inexperienced users are expressly prohibited of taking any action, unless explicitly requested by specialized technicians to do so.
- Installations must be frequently inspected for unbalance and the wear signals of the cables, springs, hinges, wheels, supports and other mechanical assembly parts.
- Do not use the product if it is necessary repair or adjustment is required.
- When performing maintenance, cleaning and replacement of parts, the product must be disconnected from power supply. Also including any operation that requires opening the product cover.
- The use, cleaning and maintenance of this product may be carried out by any persons aged eight years old and over and persons whose physical, sensorial or mental capacities are lower, or by persons without any knowledge of the product, provided that these are supervision and instructions given by persons with experienced in terms of usage of the product in a safe manner and who understands the risks and dangers involved.

- Children shouldn't play with the product or opening devices to avoid the motorized door or gate from being triggered involuntarily.
- If the power cable is damaged, it must be replaced by the manufacturer, after-sales service or similarly qualified personnel to avoid danger.
- The device must be disconnected from the electrical network when removing the battery.
- Ensure that blocking is avoided between the actuated part and its fixed parts due to the opening movement of the actuated part.

WARNINGS FOR TECHNICIANS

- Before beginning the installation procedures, make sure that you have all the devices and materials necessary to complete the installation of the product.
- You should note your Protection Index (IP) and operating temperature to ensure that is suitable for the installation site.
- Provide the manual of the product to the user and let them know how to handle it in an emergency.
- If the automatism is installed on a gate with a pedestrian door, a door locking mechanism must be installed while the gate is in motion.
- Do not install the product "upside down" or supported by elements do not support its weight. If necessary, add brackets at strategic points to ensure the safety of the automatism.
- Do not install the product in explosive site.
- Safety devices must protect the possible crushing, cutting, transport and danger areas of the motorized door or gate.
- Verify that the elements to be automated (gates, door, windows, blinds, etc.) are in perfect function, aligned and level. Also verify if the necessary mechanical stops are in the appropriate places.
- The control board must be installed on a safe place of any fluid (rain, moisture, etc.), dust and pests.
- You must route the various electrical cables through protective tubes, to protect them against mechanical exertions, essentially on

the power supply cable. Please note that all the cables must enter the control board from the bottom.

- If the automatism is to be installed at a height of more than 2,5m from the ground or other level of access, the minimum safety and health requirements for the use of work equipment workers at the work of Directive 2009/104/CE of European Parliament and of the Council of 16 September 2009.
- Attach the permanent label for the manual release as close as possible to the release mechanism.
- Disconnect means, such as a switch or circuit breaker on the electrical panel, must be provided on the product's fixed power supply leads in accordance with the installation rules.
- If the product to be installed requires power supply of 230Vac or 110Vac, ensure that connection is to an electrical panel with ground connection.
- The product is only powered by low voltage satefy with control board (only at 24V motors).
- Parts/products weighing more than 20 kg must be handled with special care due to the risk of injury. It is recommended to use suitable auxiliary systems for moving or lifting heavy objects.
- Pay special attention to the danger of falling objects or uncontrolled movement of doors/gates during the installation or operation of this product.

WARNINGS FOR USERS

- Keep this manual in a safe place to be consulted whenever necessary.
- If the product has contact with fluids without being prepared, it must immediately disconnect from the power supply to avoid short circuits, and consult a specialized technician.
- Ensure that technician has provided you the product manual and informed you how to handle the product in an emergency.
- If the system requires any repair or modification, unlock the automatism, turn off the power and do not use it until all safety

conditions have been met.
- In the event of tripping of circuits breakers of fuse failure, locate the malfunction and solve it before resetting the circuit breaker or replacing the fuse. If the malfunction is not repairable by consult this manual, contact a technician.
- Keep the operation area of the motorized gate free while the gate in in motion, and do not create strength to the gate movement.
- Do not perform any operation on mechanical elements or hinges if the product is in motion.

RESPONSABILITY

- Supplier disclaims any liability if:
  - Product failure or deformation result from improper installation use or maintenance!
  - Safety norms are not followed in the installation, use and maintenance of the product.
  - Instructions in this manual are not followed.
  - Damaged is caused by unauthorized modifications
  - In these cases, the warranty is voided.

MOTORLINE ELECTROCELOS SA.
Travessa do Sobreiro, nº29
4755-474 Rio Côvo (Santa Eugénia)
Barcelos, Portugal

SYMBOLS LEGEND:

- Important safety notices

- Potentiometer information

- Useful information

- Connectors information

- Programming information

- Buttons information

The MC62 is a control board with built-in radio control system, developed for the automation of 24V swing gates.

• Power Supply	20/24V AC
• Flashing light's output	24VDC 4W Max.
• RGB Flashing light's output	24Vdc 100mA Max.
• Motor's output	24Vdc 2 x 120W Max.
• Auxiliary accessories output	24V DC 8 W Max.
• Security and BT remote controls	24V DC
• Working temperature	-25°C to + 55°C
• Incorporated Radio Receptor	433,92 Mhz
• OP remote controls	12bits or Rolling Code
• Maximum Memory Capacity	100 (full opening) - 100 (pedestrian opening)
• Control Board Dimensions	150x100 mm

• CONNECTORS

VAC	**01** • Power Supply Input - 20/24Vac 120W **02** • Power Supply Input - 20/24Vac 120W
BATT	**01** • 24Vdc Input for Emergency Battery **02** • COM Input (Solar Panel or Emergency Battery) **03** • 24Vdc Input for Solar Panel
LAMP	**01** • Flashing light's Output - 24Vdc 4W **02** • Flashing light's Output - 0V
MOT1	**01** • Motor 1 Output - 24Vdc 120W **02** • Motor 1 Output - 24Vdc 120W
MOT2	**01** • Motor 2 Output - 24Vdc 120W **02** • Motor 2 Output - 24Vdc 120W
LOCK	**01** • ElectricLock Output - 12/24Vdc 12W **02** • ElectricLock Output - 0V
V+	**01** • Accessories Output - 24Vdc 8W **02** • Accessories Output - 0V

02. CONTROL BOARD — CHARACTERISTICS

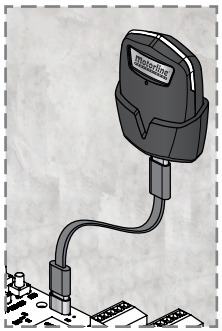
LO	**01** • NO input for complete maneuver button **02** • Common
LS	**01** • NO input for pedestrian maneuver button **02** • Common
LE	**01** • NC input for external photocells **02** • Common
LA	**01** • NC input for internal photocells **02** • Common
LC1	**01** • NC input for anti-crushing photocells **02** • Common
LC2	**01** • NC input for anti-crushing photocells **02** • Common
ANT	**01** • Antenna **02** • GND
LINK	Type-C input for MCONNECT LINK connection

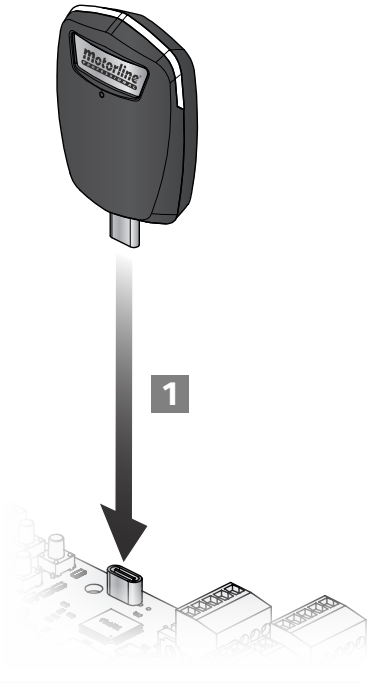
02. CONTROL BOARD — RECOMMENDATIONS PRIOR TO PROGRAMMING

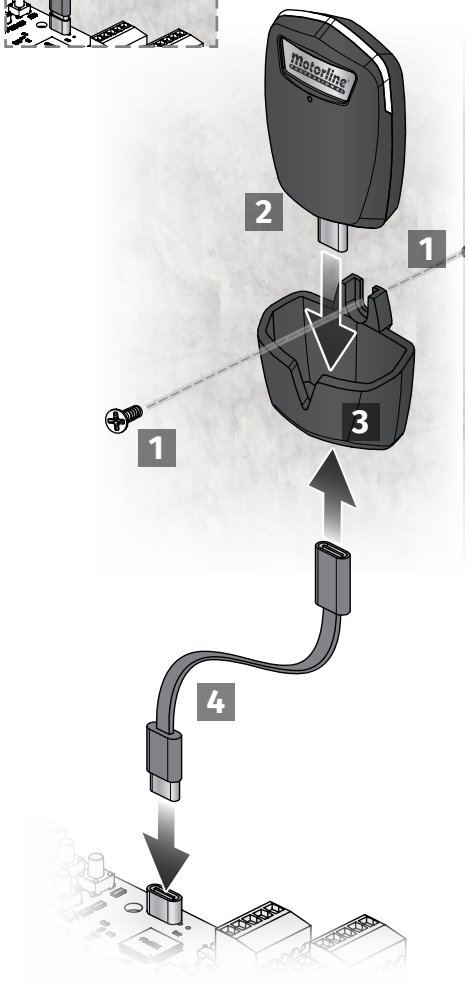
To improve the knowledge about the operation of the control board, before setting up, pay particular attention to the following instructions.

LEDs	**LS** • LED On when pedestrian opening is active. **LO** • LED On when full opening is active. **LE** • LED on when the photocell is active or the LE circuit is closed. **LA** • LED on when the photocell is active or the LA circuit is closed. **LC1** • LED on when the circuit LC1 is closed (anti-crushing photocells). **LC2** • LED on when the circuit LC2 is closed (anti-crushing photocells).

03. INSTALLATION — INSTALLATION OF MCONNECT LINK (OPTIONAL)







The installation process assumes that the gate already has mechanical or electrical limit switches installed. For more information read the motor's manual.

01 • Connect all accessories according to the connections diagram **(page 17).**
02 • Connect the control board to a 20V power supply
03 • Check if the gate movement is the same as shown on the display:

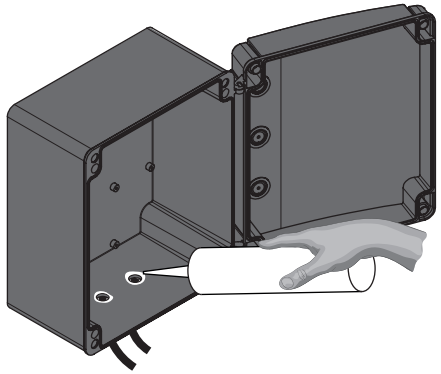
CL	OP
CLOSE	**OPEN**

If the display does not match the movement of the gate, switch off the control board from power supply and change the wires of Motor1 (0 and 0) and Motor2 (0 and 0).

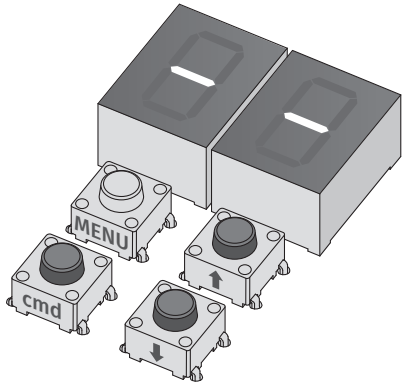
04 • Make a course programming - menu **P0** (**page 9A**).
05 • If necessary, adjust the deceleration time of the gate at opening and closing - menu **P1** (**page 10A**).
06 • Adjust the gate force and sensitivity - menu **P2** (**page 10B**).
07 • Re-program the course - menu **P0** (**page 9B**).
08 • Enable or disable the use of Photocells in menu **P5 and P6** (**page 11A and 11B**).
09 • Program a remote control (**page 7B**).

The control board is now fully configured!
Check the pages of the menu programming if you want to configure other features of the Control board.

After completing the entire installation of the electrical panel, it is mandatory to seal with silicone all openings in the box (accesses, cable passages and slots) to prevent the entry of moisture and insects that could compromise the normal functioning of the electrical components.



SU	SP
Programming a remote control for full opening	Programming a remote control for pedestrian opening



REMOTE CONTROL PROGRAMMING

01 • Press the **cmd** button for 1 sec.
02 • Select the function where you want to program the remote controls (SU and SP) using ↓↑.
03 • Press **cmd** once to confirm the function (SE or SP).
04 • The first free position appears.
05 • Press the remote control button you want to program.
The display will blink and move to the next free location.

DELETE REMOTE CONTROLS

01 • Press the **cmd** button for 1 sec.
02 • Select the function (SU or SP) using ↓↑.
03 • Press **cmd** once to confirm the function (SU or SP).
04 • Use ↓↑ to select the remote control location you want to delete.
05 • Press cmd for 3sec. and the position is empty.
The display will flash and the position will be available.

DELETE ALL THE REMOTE CONTROLS

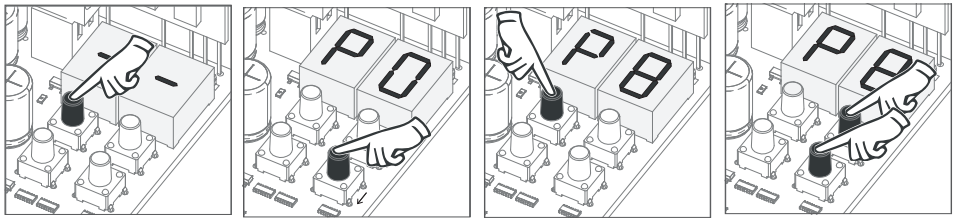
01 • Press the **cmd** button for 5 sec.
02 • The display will show **dL**, confirming that all remote controls have been deleted.

• Whenever you store or delete a remote control, the display will flash and show the next position. You can add or delete remote controls without go back to point 01.
• If you do not press any button for 10 seconds the control board will return to standby.

We can only go into programming with the gate electrically stumbled.

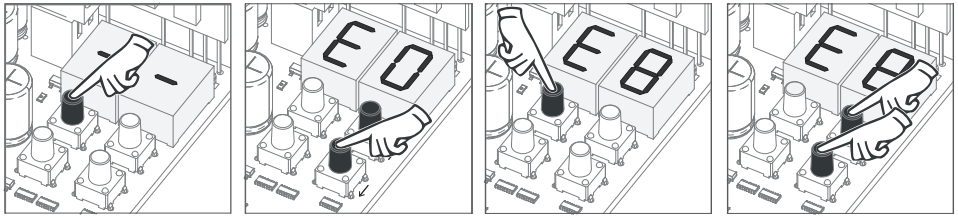
The functions of the control board are divided into 2 areas:
- Main Menus "P"
- Extra Menus "E"

P MENU



- To access the P menu press the MENU button for 2 sec.
- Use ↓↑ to navigate through the menus.
- Press MENU when you want to confirm access to a menu.
- Press ↓↑ simultaneously to exit programming.

E MENU



- To access the E menu press the MENU button for 10 sec.
- Use ↓↑ to navigate through the menus.
- Press MENU when you want to confirm access to a menu.
- Press ↓↑ simultaneously to exit programming.

MENU	FUNCTION	MIN.	MAX.	STATE	FACTORY VALUE	PAGE
P0	Course Programming	-	-	6A Manual Programming 6O 1 motor 2 motors SO 00 Disable Solar Kit Apolo 01 Activate Solar Kit Apolo	- 00	9A
P1	Deceleration time adjustment	0s	25s	dA Opening deceleration dF Closing deceleration — Leaf 1 bA Opening deceleration bF Closing deceleration — Leaf 2	3s	9A
P2	Force and sensitivity adjustment	0	9	FO Force adjustment FS Sensivity adjustment	05	10A
P3	Pedestrian Course time	0s	99s	Time setting in pedestrian mode	10s	10A
P4	Pause time and Gates delay	0s	99s	AF Full pause time adjustment AP Pedestrian pause time adjustment	0s	10B
		0s	25s	Ac Gate delay in closing Ao Gate delay in opening	2s	
P5	Photocells 1 programming	-	-	LE 00 Disables photocells 01 Activate photocells	00	10B
				HC 00 Photocells in opening 01 Photocells in closing	01	
				HL 00 Invert 01 Stop 02 Invert 2 sec. and Stop	00	
				Lc 00 Disables anti-crushing photocells LC1 01 Activates anti-crushing photocells LC1	00	
				Sc 00 Deactivates photocell test 01 Activates photocell test	00	
P6	Photocells 2 programming	-	-	LA 00 Disables photocells 01 Activate photocells	00	11A
				HC 00 Photocells in opening 01 Photocells in closing	00	
				HL 00 Invert 01 Stop 02 Invert 2 sec. and Stop 03 Invert at close/stop 2sec at opening 04 Stops when closing and reverses when the obstacle comes out. / Stops at the opening and continues when the obstacle comes out	01	
				LS 00 Disables anti-crushing photocells LC2 01 Activates anti-crushing photocells LC2	00	
				Sc 00 Deactivates photocell test 01 Activates photocell test	00	
P7	Operating logic	-	-	00 Automatic mode functioning 01 Step by step mode functioning 02 Condominium mode functioning	01	11A
P8	Flashing lamp	-	-	00 Flashing (opening and closing) 01 Step by step mode 02 Courtesy light	00	11B
P9	Remote programming	-	-	00 Distance PGM OFF 01 Distance PGM ON	00	11B

MENU	FUNCTION	MIN.	MAX.	STATE		FACTORY VALUE	PAGE
E0	Human Presence	-	-	HP	00 Desactivates human presence 01 Activates human presence	00	12A
				PL	00 Disables push buttons mode 01 Activates push buttons mode	00	
				LS	00 Disables input for emergency stop devices 01 Enables input for emergency stop (NC) devices	00	
E1	Soft start	-	-	00 Deactivates Soft start 01 Activates Soft start		00	12B
E2	Courtesy light time / Pre-Flashing lamp	0	99	LE	Courtesy light time adjustment	00	12B
				PP	Adjustment of Pre-Flashing lamp time		
E3	Follow me	-	-	00	Desactivates follow me	00	13A
				01	Activates Follow me (fully open)		
				02	Activates Follow me (in opening or fully open position)		
E4	Course time adjustment	1m	4m	mA	Opening course time (minutes)	Leaf 1	00	13A
		0s	59s	SA	Opening course time (seconds)		10s	
		1m	4m	mC	Closing course time (minutes)		00	
		0s	59s	SC	Closing course time (seconds)		10s	
		1m	4m	mA	Opening course time (minutes)	Leaf 2	00	
		0s	59s	SA	Opening course time (seconds)		10s	
		1m	4m	mC	Closing course time (minutes)		00	
		0s	59s	SC	Closing course time (seconds)		10s	
E5	Brake/Lock/ Strokes	-	-	Eb	00 Disables electronic brake 01 Active electronic brake	00	13B
				EL	00 Activates electric lock on opening 01 Activates electric lock whenever moving	00	
				Po	00 Disables opening push 01 Active opening push	00	
				Pc	00 Disables closing push 01 Active closing push	00	
				Pr	00 Motor lock on closing disabled 01 Motor lock on closing activated	00	
E6	Deceleration Speed	0	9	Sd	Deceleration Speed adjustment	05	13B
E7	Manuevers counter	-	-	Shows the number of maneuvers		-	14A
E8	Reset - Restore factory settings	-	-	00 Deactivated 01 Reset activated		00	14B
E9	RGB Output	-	-	00 Continued output 01 Intermittent output		00	14B

nA	n0	S0
Course Manual Programming This menu allows you to manually set the course of the leaf/leaves.	**Number of Motors** Allows you to define the number of motors connected to the control board	**Solar kit** This menu allows activating the solar Kit Apolo mode and its connection with the control board. The RBG Y output changes the operating mode so that it is activated only when the gate is closed, telling the Kit to turn off the power supply. With this menu active, the control board will recognize that it is closed and will open at its normal speed, when given the order.
Default value (**NA**)	Default value (**02**)	Default value (**00**)

DIRECTION OF DISPLAY ROTATION	COURSE PROGRAMMING OF TWO MOTORS
08	Normal rotation - leaf 1 starts opening (normal speed) Slow rotation - leaf 1 goes into opening slowdown (slowdown speed)
80	Normal rotation – leaf 1 stops and leaf 2 starts opening (normal speed) Slow rotation - leaf 2 goes into opening slowdown (slowdown speed)
85	Normal rotation – leaf 2 stops and starts closing (normal speed) Slow rotation - leaf 2 goes into closing speed (slowdown speed)
58	Normal rotation - leaf 2 stops and leaf 1 starts opening (normal speed) Slow rotation - leaf 1 goes into closing slowdown (slowdown speed)
	COURSE PROGRAMMING OF ONE MOTOR (PEDESTRIAN)
08	Normal rotation - leaf starts opening (normal speed) Slow rotation - the leaf goes into opening slowdown (slowdown speed)
80	Normal rotation - the leaf stops and starts closing (normal speed)
05	Slow rotation - the leaf goes into closing slowdown (slowdown speed)

Manual programming:

01 • Press MENU for 2 sec. until P0 appears.
02 • Press MENU once until nA appears.
03 • Press MENU (or remote control) to start programming the opening time.

2 MOTORS (nA = 02)	1 MOTOR (PEDESTRIAN) (nA = 01)
04 • Press MENU to start slowdown. **05** • Press MENU to stop leaf 1 (leaf 2 starts opening automatically). **06** • Press MENU to start slowdown. **07** • Press MENU to finish opening and start closing leaf 2. **08** • Press MENU to start slowdown. **09** • Press MENU to stop leaf 2 (leaf 1 starts closing automatically). **10** • Press MENU to start slowdown. **11** • Press MENU to finish closing leaf 1. *Display will show 88 signaling that leaves are closed.*	**04** • Press MENU to start the opening slowdown of the leaf. **05** • Press MENU to stop the leaf and start programming the closing time. **06** • Press MENU to start the closing slowdown of the leaf. **07** • Press MENU once to display n0, leaf 1 stops. **08** • Use UP and DW to display P1 to exit programming mode. **09** • Use UP and DW to stay in Standby.

⚠ You can use the remote instead of the MENU button.
Whenever a leaf touches a stop, wait 1 second before clicking on the MENU.

04. PROGRAMMING "P" — P0 COURSE PROGRAMMING

P0-n0 - Number of motors:
01 • Press MENU for 2 sec. until P0 appears.
02 • Press MENU once until nA appears.
03 • Use UP until 02 appears.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

P0-S0 - Solar kit:
01 • Press MENU for 2 sec. until P0 appears.
02 • Press MENU once until nA appears.
03 • Use UP until S0 appears.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to store the new value.

04. PROGRAMMING "P" — P1 DECELERATION TIME ADJUSTMENT

This menu allows to set the deceleration time of each leaf at opening and closing.

dA	dF
Slowing down on opening leaf 1 It allows to define the time that the gate will act with slowdown in the opening.	**Slowing down on closing leaf 1** It allows to define the time that the gate will act with slowdown in the closing.
bA	bF
Slowing down on opening leaf 2 It allows to define the time that the gate will act with slowdown in the opening.	**Slowing down on closing leaf 2** It allows to define the time that the gate will act with slowdown in the closing.

min. 0s — max. 25s. Default value (**03**)

01 • Press MENU for 2 sec. until it appears P0.
02 • Use UP until appears P1.
03 • Press Menu will appear dA. Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.
07 • Press MENU again.
08 • Use UP and DW to display AA to exit programming mode.
09 • Use UP and DW to stay in Standby.

04. PROGRAMMING "P" — P2 FORCE AND SENSITIVITY ADJUSTMENT

⚠ A very low value in this parameter may cause the motor to not have enough torque to move the gate and the effort error occurs (E1 or E2)

F0	FS
Force adjustment Allows you to set the force that is injected into the motor when it moves at normal speed.	**Sensitivity adjustment** Allows to adjust the sensitivity of the motor in the presence of obstacles. The higher the sensitivity, the less effort it will take to detect any obstacle and reverse direction.
min. 1 — 9 max.	min. 1 — 9 max.
Default value (**05**)	Default value (**05**)

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P2 .
03 • Press Menu will appear F0. Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P3 PEDESTRIAN COURSE TIME

The pedestrian mode allows the gate to be opened for the passage of people, without it needing to open in its entirety.
In this function you can schedule the time you want the gate to open.

⚠ **For pedestrian mode to work, it is necessary that the minimum work is 1 second, and 0 disables the pedestrian.**

min. 0s — max. 99s.
Default value (**10 secondes**)

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P3 .
03 • Press MENU. The factory set time appears.
04 • Use UP and DW to change the value.
05 • Press MENU to save the new value.

04. PROGRAMMING "P" — P4 PAUSE TIME AND GATES DELAY

AF	AP	Ac	Ab
Closing time adjustment Allows adjustment of the pause time for automatic closing.	**Pedestrian closing pause time adjustment** Allows you to set the pause time at the pedestrian opening.	**Gate delay in closing** Allows you to set the delay time for closing leaf 1 relative to leaf 2.	**Gate delay in opening** Allows you to set the delay time for opening leaf 1 relative to leaf 2.
Default value (**00**)	Default value (**00**)	Default value (**02**)	Default value (**02**)

⚠ When the values are at zero, there is no automatic closing.

01 • Press MENU for 2 sec. until it appears P0.
02 • Use UP until appears P4.
03 • Press Menu will appear AF. Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P5 PHOTOCELLS 1 PROGRAMMING

Allows to program LE security behavior (photocell 2).

LE	**00 (disables photocells) | 01 (activates photocells)** Enable or disable security entry.	Default value (**00**)
HC	**00 (opening photocells) | 01 (closing photocells)** This menu can only be changed when the LE menu is active. Allows you to define whether this security will act when opening or closing the gate.	Default value (**01**)
HL	**00 (the gate is reversed)** **01 (gate stops and resumes 5 sec after security is disabled)** **02 (gate reverses for 2 sec. and stop)** Allows you to set the behavior that the gate will have when this security is activated.	Default value (**00**)
Lc	**00 (disables photocells) | 01 (activates photocells)** Allows you to activate or deactivate the LC1 input (anti-crushing photocell 1).	Default value (**00**)
Sc	**00 (Deactivates photocell test) | 01 (Activates photocell tests)** Allows you to activate or deactivate the photocell test.	Default value (**00**)

01 • Press MENU for 2 sec. until it appears P0.
02 • Use UP until appears P5.
03 • Press Menu will appear LE. Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P6 PHOTOCELLS 2 PROGRAMMING

Allows to program LA security behavior (photocell 2).

LE	**00 (disables photocells) | 01 (activates photocells)** Enable or disable security entry.	Default value (**00**)
HC	**00 (opening photocells) | 01 (closing photocells)** This menu can only be changed when the LA menu is active. Allows you to define whether this security will act on the opening or closing of the gate.	Default value (**01**)
HL	**00 (the gate is reversed)** **01 (gate stops and resumes 5 sec after security is disabled)** **02 (gate reverses for 2 sec. and stop)** **03 (the gate reverses at the closing, stops and reverses 2 sec. at the opening)** **04 (When closing, it stops until the obstacle comes out, as soon as it comes out the gate reverses. When opening, it stops until the obstacle comes out, as soon as it comes out the gate continues to open)** Allows to set the behavior that the gate will have when this security is activated.	Default value (**00**)
LC	**00 (desativa fotocélulas) | 01 (ativa fotocélulas)** Permite ativar ou desativar a entrada LC2 (fotocélula anti-esmagamento 2)	Default value (**00**)
Sc	**00 (Deactivates photocell test) | 01 (Activates photocell tests)** Allows you to activate or deactivate the photocell test.	Default value (**00**)

01 • Press MENU for 2 sec. until it appears P0.
02 • Use UP until appears P6.
03 • Press MENU will appear LA. Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P7 OPERATING LOGIC

This menu allows to set the operating logic of the automation

00	01	02
Automatic Mode **Whenever there is an order the movement is reversed.**	**Step by step mode** **1st impulse - OPEN** **2nd impulse - STOP** **3rd impulse - CLOSE** **4th impulse - STOP** If it is fully open and timed, it closes.	**Condominium Mode** Does not respond to orders during opening and pause time.

Default value (**01**)

04. PROGRAMMING "P" — P7 OPERATING LOGIC

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P7 .
03 • Press Menu will appear 00 .
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P8 FLASHING LAMP

This menu allows to set the operation mode of the flashing lamp (LAMP).

00	01	02
Intermittent (opening and closing) During the opening/closing movement of the gate, the flashing lamp will work intermittently	**In the opening and closing movement,** the flashing lamp is permanently on.	**Courtesy light** The light will stay on for the time set in the E2 menu.

Default value (**00**)

01 • Press MENU for 2 sec. until it appears P0.
02 • Use UP until appears P8.
03 • Press Menu will appear 00.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P9 REMOTE PROGRAMMING

00	01
Distance PGM OFF	**Distance PGM ON**

This menu allows to enable or disable the programming of new remote controls without directly accessing the control board, using a previously stored remote controls (memorize remote controls page 7B).

Default value (**00**)

04. PROGRAMMING "P" — P9 REMOTE PROGRAMMING

01 • Press MENU for 2 sec. until it appears P0.
02 • Use UP until appears P9.
03 • Press Menu will appear 00.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

Remote Programming Operation (PGM ON):

• Press the buttons indicated in the image simultaneously for 10 seconds and the flashing lamp will flash (the 1st free position appears in the display).
Each time you store 1 remote control, the control board will exit remote programming. If you want to memorize more remote controls, you will always have to repeat the process of pressing the remote control buttons simultaneously for 10 seconds for each new remote control.

05. PROGRAMMING "E" — E0 HUMAN PRESENCE

HP	PL	LS
00 (disables human presence) Whenever an order is sent to the LO input and the motor performs a complete maneuver. **Human presence 01 (active human presence)** The motor only works if you keep the LS button pressed. ⚠ **With the human presence active the RF remote controls do not work.**	**00 (disables pushbutton mode)** **01 (active pushbutton mode)** 01 ON: LS = Full closing; LO = Full opening 00 OFF: LS = Pedestrian maneuvers; LO = Total maneuvers	Allows you to define how the LS input works. **00 (disables input to emergency stop device)** **01 (input for emergency stop devices)** ⚠ **If you have the LS submenu in 01 (active) and the PL submenu in 01 (active), the error appears BL.**

Default value (**00**)

01 • Press MENU for 10 sec. until it appears E0.
02 • Press MENU until it appears HP. Use UP or DW to navigate the parameters.
03 • Press MENU to edit the chosen parameter value.
04 • The factory set time appears. Use UP and DW to change the value.
05 • Press MENU to save the new value.

05. PROGRAMMING "E" — E1 SOFT START

00 function disabled
01 function activated

This menu allows activate/disable soft start.
With the soft start function activated, at each start of movement, the control board will control the start of the motor, gradually increasing in the first second of operation.

Default value (**00**)

01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appear E1.
03 • Press Menu will appear 00.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E2 COURTESY LIGHT TIME / PRE-FLASHING LAMP

Lt	PP
Allows to adjust the courtesy light time. The courtesy light is activated for the set time when the gate is in the closed, open and standing position.	This menu allows you to define the time (from 1 to 99 seconds) that the flashing lamp remains active before the start of each maneuver.

The E2 menu will only be available in the case if the courtesy light function is activated in the P8 menu option 2 (see page 12A)

Default value (**00**)

01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appears.
03 • Press Menu will appear.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E3 FOLLOW ME

00 function disabled
01 function activated after opening
02 function activated on opening

Allows you to activate the Follow me option. With this option activated, the control board, when in the open position or in opening, gives a closing order of 5 sec. after the safety device detects the passage of an object / user.

Default value (**00**)

01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appears E3.
03 • Press MENU. The factory set time appears.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E4 COURSE TIME ADJUSTMENT

It allows to adjust the working time for the opening and closing courses of the two leafs.

Leaf 1

01	05	c1	c5
Opening course time (minutes)	**Opening course time (seconds)**	**Closing course time (minutes)**	**Closing course time (seconds)**
Default value (**00**)	Default value (**10**)	Default value (**00**)	Default value (**10**)

Leaf 2

o1	o5	C1	C5
Opening course time (minutes)	**Opening course time (seconds)**	**Closing course time (minutes)**	**Closing course time (seconds)**
Default value (**00**)	Default value (**10**)	Default value (**00**)	Default value (**10**)

01 • Press MENU for 10 sec. until it appears E0 .
02 • Use UP until appears E4.
03 • Press MENU will appear 01 . Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E5 BRAKE/LOCK/PUSH

Allows to program gate behavior

Eb	**00 (disables electronic brake) | 01 (activates electronic brake)** Allows you to activate the electronic brake.	Default value (**00**)
EL	**00 (active lock on opening 2 sec.) | 01 (activates lock whenever in motion)** Allows you to select the lock's operating mode. The default value is 0 (2 second pulse on opening). **Note: If you select option 2, you must take into account the maximum current value provided by the control board.**	Default value (**00**)
Po	**00 (disable opening push) | 01 (active opening push)** Allows you to activate the opening stroke (ram).	Default value (**00**)
Pc	**00 (disables closing push) | 01 (active closing push)** Allows you to activate the closing push.	Default value (**00**)
Pr	**00 (deshabilita el bloqueo del motor al cierre) | 01 (activa el bloqueo del motor al cerrar)** Permite activar el bloqueo de los motores en posición cerrada. Sirve principalmente para motores hidráulicos.	Default value (**00**)

01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appears E5.
03 • Press MENU will appear Eb. Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E6 DECELERATION SPEED

This menu allows you to adjust the deceleration speed.
The higher the level, the faster the deceleration.

min. 0 … 9 max.
Default value (**05**)

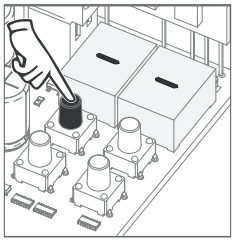
01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appears E6.
03 • Press MENU will appear Sd.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E7 MANUEVERS COUNTER

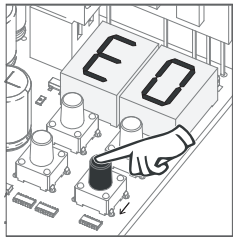
This menu allows you to view the number of maneuvers were performed by the control board. (complete maneuver means opening and closing).

⚠ **Resetting the control board does not clear the maneuver count.**

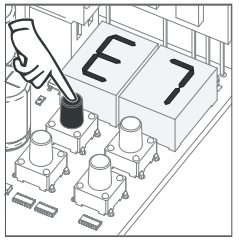
Example: 13456 maneuvers
01- Hundred thousand / 34- Thousands / 56- Dozens



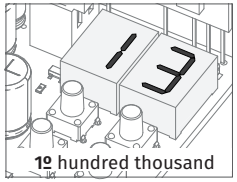
01 • Press MENU for 10 seconds.



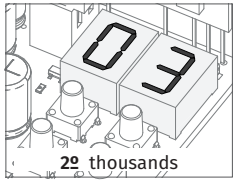
02 • E0 appears. Press UP until appears E7.



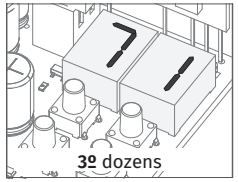
03 • Press MENU.



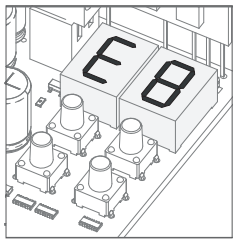
display flashes →



display flashes →



04 • The maneuvers count is displayed in the following order (example: 130 371)



05 • E8 appears.

05. PROGRAMMING "E" — E8 RESET - RESET FACTORY VALUES

When resetting, all factory values will be reset.

The memorized remote controls and the maneuver counter will always have the memorized data.

01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appears E8.
03 • Press MENU will appear 00.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E9 RGB OUTPUT

00	01
Continuous light	**Flashing light**

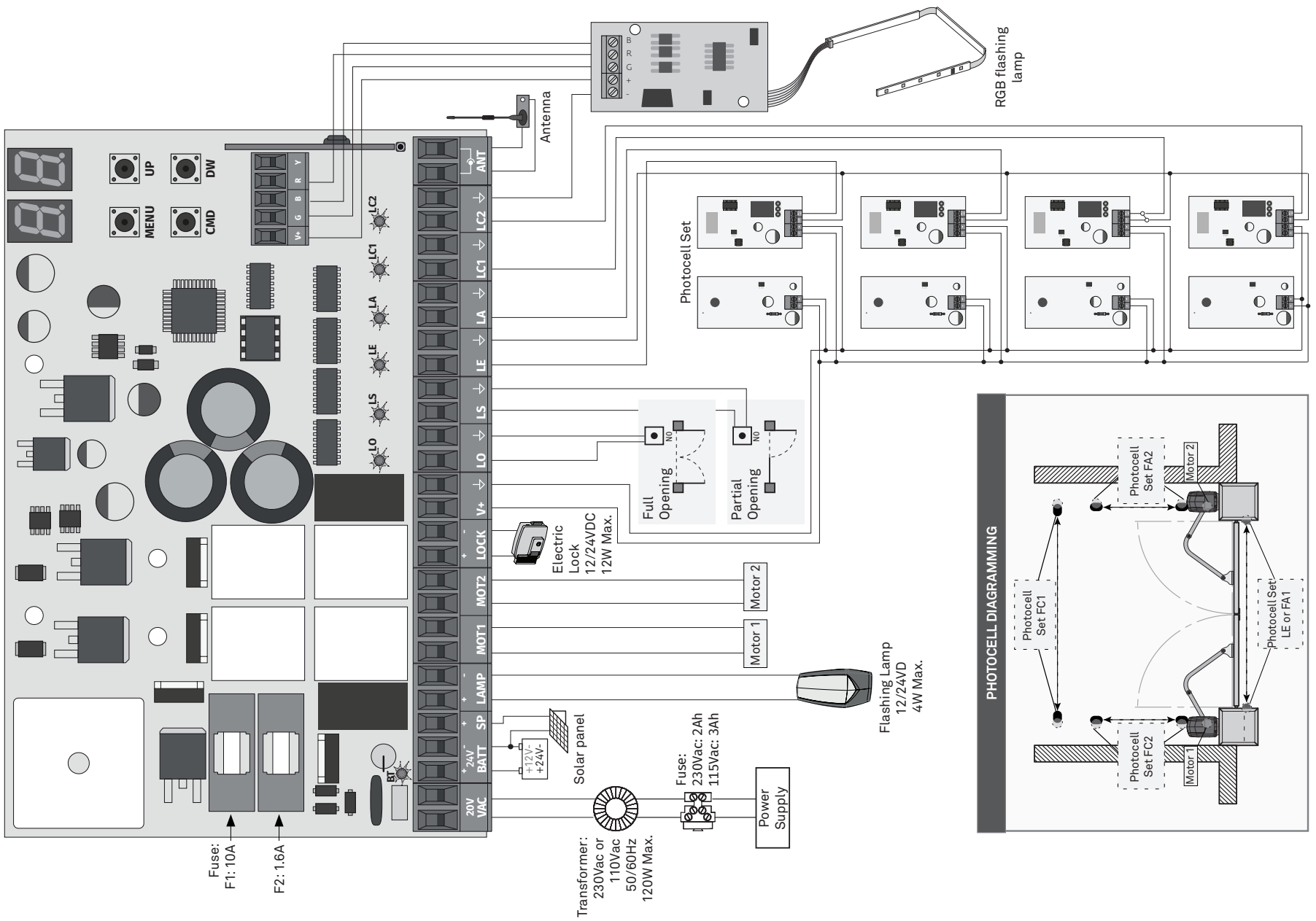
Default value (**00**)

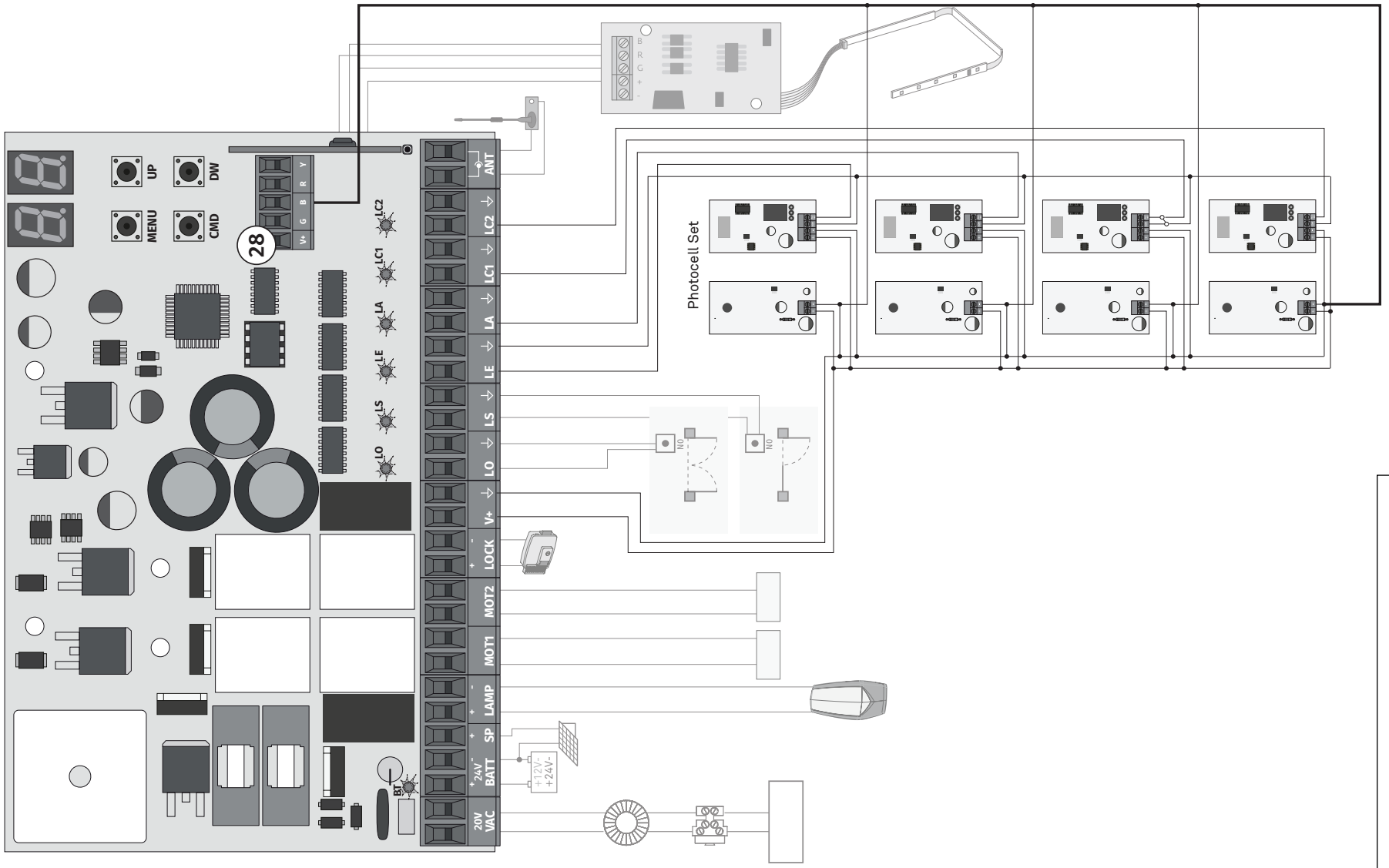
01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appears E9.
03 • Press MENU will appear 00.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

06. DISPLAY — DISPLAY INDICATIONS

MENU	DESCRIPTION
AA	In the stopped position, fully open
--	In the stopped position, intermediate position
__	In the stopped position, fully closed
LO	Full opening button pressed
LS	Pedestrian opening button pressed
OP	Control board perfoms the opening course
CL	Control board perfoms the closing course
FO	End of opening course time
FC	End of opening course time
LU	Full memory
dL	All remote controls erased
00 01 02	Remote control triggered from the indicated position
LE	Obstructed photocell
LA	Obstructed photocell
AF	In pause time
AP	In time of pedestrian pause
o1	Motor 1 overcurrent detection
o2	Motor 2 overcurrent detection
BL	Emergency stop circuit opened. Check that the security button is correctly connected.
PP	Control in Pre-Flashing lamp

Anomaly	Procedure	Behavior	Procedure II	Discovering the origin of the problem
• Motor doesn't work.	• Make sure you have power supply 230/110V connected to control board and if it is working properly.	• Still not working.	• Consult a qualified technician MOTORLINE.	1 • Open control board and check if it has 230/110V power supply; 2 • Check input fuses; 3 • Disconnect motors from control board and test them by connecting directly to a 12/24V battery in order to find out if they have problems. 4 • If the motors work, the problem is on the control board. Pull it out and send it to our MOTORLINE technical services for diagnosis; 5 • If the motors don't work, remove them from installation site and send to our technical services for diagnosis.
• Motor doesn't move but makes noise.	• Unlock motor and move the gate by hand to check for mechanical problems on the movement.	• Encountered problems?	• Consult a qualified gates technician.	1 • Check all motion axis and associated motion systems related with the gate and automation (rails, pulleys, bolts, hinges, etc) to find out what is the problem.
		• The gate moves easily?	• Consult a qualified MOTORLINE technician.	1 • If the motors work, the problem is on the control board. Pull it out and send it to our MOTORLINE technical services for diagnosis; 2 • If the motors don't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
• Motors open but doesn't close.	• Unlock motor and move the gate by hand to closed position. Block the motor again and turn off power supply for 5 seconds. Reconnect it and send order to open gate using remote control.	• Gate opened but didn't close again.	1 • Check if there is any obstacle in front of the photocells; 2 • Check if any of the control devices (Key Selector, Pushbutton, Video Intercom, etc.) are stucked and sending permanent signal to control board; 3 • Consult a qualified MOTORLINE technician.	All control boards have LEDs that easily allow to conclude which devices are with anomalies. All safety devices LEDs (DS) in normal situations remain On. All "START" LEDs in normal situations remain Off. If LEDs devices are not all On, there is some security systems malfunction (photocells, safety edges). If "START" LEDs are on, there is a control device sending permanent signal. **A) SECURITY SYSTEMS:** 1 •Close with a shunt all safety systems on the control board (check manual of the control board). If the automated system starts working normally check which device is problematic. 2 • Remove one shunt at a time until you find the malfunction device. 3 • Replace it for a functional device and check if the motor works correctly with all the other devices. If you find another one defective, follow the same steps until you find all the problems. **B) START SYSTEMS:** 1 • Disconnect all wires connected to the START connector (LO and LE). 2 • If the LED turned OFF, try reconnecting one device at a time until you find the defective device. **NOTE:** In case procedures described in sections A) and B) don't result, remove control board and send to our MOTORLINE technical services for diagnosis.
• Motor doesn't make complete course.	• Unlock motor and move gate by hand to check for mechanical problems on the gate.	• Encountered problems?	• Consult an experienced gates expert.	1 • Check all motion axis and associated motion systems related with the gate and automation (rails, pulleys, bolts, hinges, etc) to find out what is the problem.
		• The gate moves easily?	• Consult a qualified technician MOTORLINE.	1 • If the motors don´t work, remove them from installation site and send to our MOTORLINE technical services for diagnosis. 2 • If motor work well and move gate at full force during the entire course, the problem is on the control board. Make a new working time programming, giving enough time for opening and closing with appropriate force (consult control board manual). 3 • If this doesn't work, remove control board and send it to MOTORLINE technical services. **NOTE:** Setting force of the control board should be enough to open and close the gate without stopping, but should stop and invert with a little effort from a person. In case of safety systems failure, the gate shall never cause physical damaged to obstacles (vehicles, people, etc.).


UP
DW
MENU
CMD
ANT
LC2
LC1
LA
LE
LS
LO
V+
LOCK
MOT2
MOT1
LAMP
SP
BATT
20V AC
Antenna
RGB flashing lamp
Photocell Set
Full Opening
Partial Opening
Electric Lock 12/24VDC 12W Max.
Motor 2
Motor 1
Flashing Lamp 12/24VD 4W Max.
Solar panel
Fuse: 230Vac: 2Ah 115Vac: 3Ah
Power Supply
Transformer: 230Vac or 110Vac 50/60Hz 120W Max.
Fuse: F1: 10A
F2: 1.6A
PHOTOCELL DIAGRAMMING
Photocell Set FC1
Photocell Set FA2
Photocell Set LE or FA1
Photocell Set FC2
Motor 2
Motor 1



When the photocell test is active, the negative power supply to the photocells must be supplied by **connector 28 (B).**