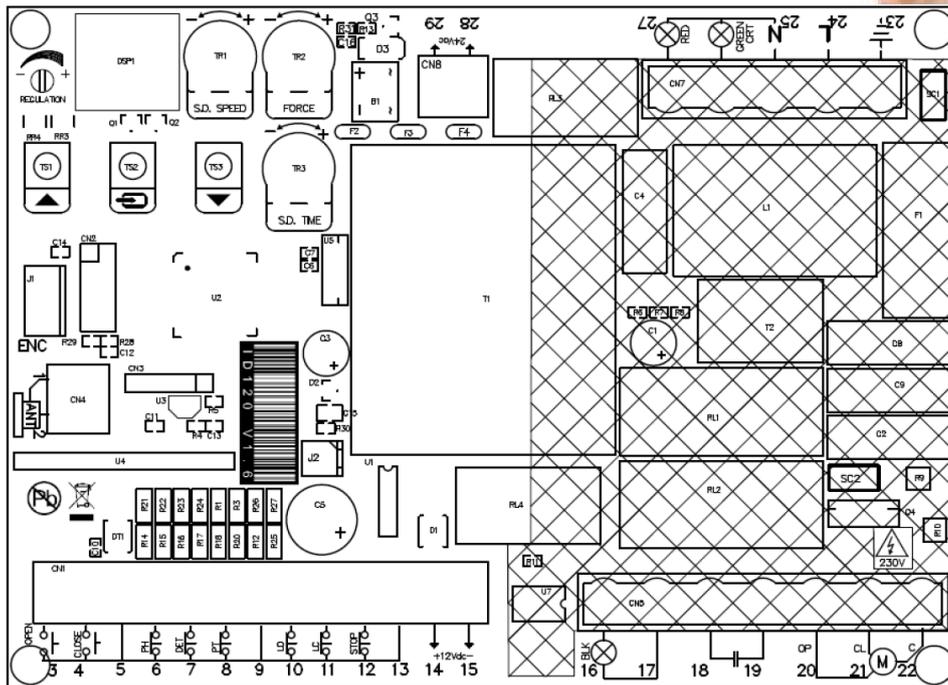


# TIPS & TRICKS



## LOGICID120

- **TIP** – You need to fit three small loops of wire to your safety inputs to make anything work. These can be removed later if you install safety devices to these input terminals. But for now take three pieces of light gauge wire (speaker or telephone wire is good) about 50mm long and strip both ends 7mm and insert them as above from 6 to 9, 8 to 9 and 12 to 13.
  - **TIP** – The manual offers both automatic programming and manual programming. Manual programming gives more control and is preferred by professional installers, but auto programming works just fine so give it a try first.
- **TIP** – This control board has a higher level of security than previous versions and will not accept older style remote controls. Use REMGR only.
  - **TIP** – If using wireless keypad KEYPADP6 set it to 20Bit mode to work with this board.



# ID 120

## CONTROL UNIT FOR 1 MOTOR 240V

**Important: Read carefully this manual before the installation. This manual is integral part of your product, keep it for reference.**

### Warnings:

- ⚠ First of all verify that this product is suitable for the installation.
- ⚠ Read carefully technical characteristic before the installation.
- ⚠ Installation of this control unit must be properly done by qualified installers, following rules and regulations of installation country.
- ⚠ It's mandatory do periodic maintenance each 6 month.
- ⚠ Maintenance or repairing must be done by qualified Technicians.
- ⚠ Turn power off before maintenance or repairing.
- ⚠ This device is intended for gate automation, any other applications is strongly advised.
- ⚠ Not respecting of rules may cause serious damage to peoples, animals, things.
- ⚠ Manufacturer discharges all responsibility for missed respect of rules.
- ⚠ Don't let this control unit unattended or where children can reach

Preliminary checking: Before to install this control unit,

- ⚠ Verify that all the connected devices respect the technical characteristics mentioned in the table which follows.
- ⚠ Verify that a working and suitable life switch is installed upline the installation.
- ⚠ Verify that cables composing the installation, are suitable for it.
- ⚠ This product falls within the scope of the Directive 2012/19 / EU concerning the management of waste electrical and electronic equipment (WEEE). The appliance must not be disposed of with domestic waste as it is made of different materials that can be recycled at the appropriate facilities. Inquire through the municipal authority regarding the location of the ecological platforms to receive the product for disposal and its subsequent correct recycling. Furthermore, it should be remembered that, upon purchase of an equivalent appliance, the distributor is obliged to collect the product for disposal free of charge. The product is not potentially dangerous for human health and the environment, not containing harmful substances, but if abandoned in the environment negatively impacts on the ecosystem. Read the instructions carefully before using the appliance for the first time. It is recommended that you do not use the product for any purpose other than that for which it was intended, there being a danger of electric shock if used improperly



**The crossed-out bin symbol, on the label on the appliance, indicates the compliance of this product with the regulations regarding waste electrical and electronic equipment. Abandonment in the environment of the equipment or illegal disposal of the equipment is punishable by law.**

The manufacturer:

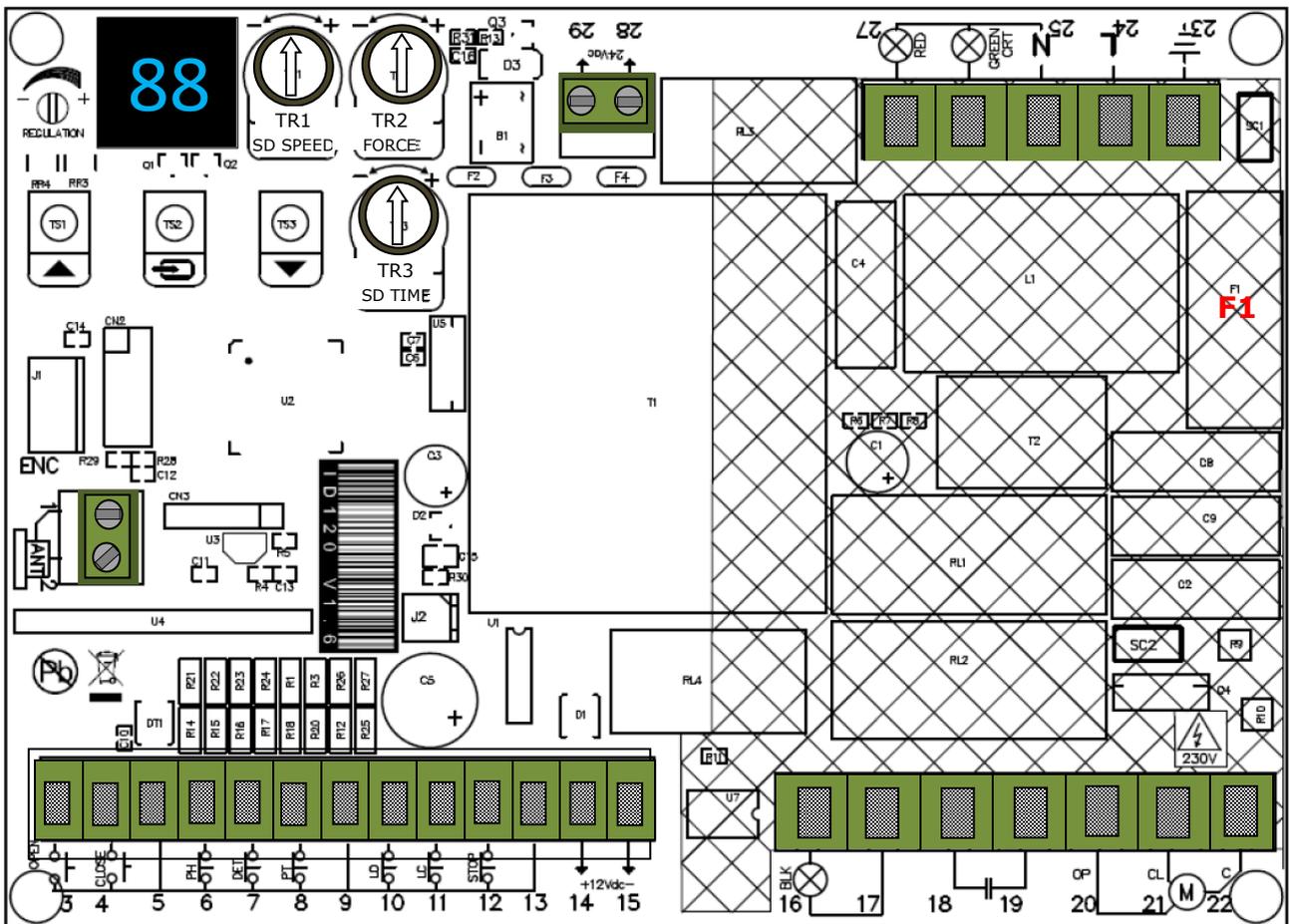
Declares: The control unit ID120 is compliant to following directives:

- 2006/95/CE Low voltage directive.
- 2004/108/CE Electromagnetic compatibility.

Castiglione 10-11-2020

Castiglione 10-11-2016

TECHNICAL DATA	
Power supply	230Vac +/- 10%
Consumption	800mW (stand-by)
Auxiliary supply out	24Vac, 200mA
Motor output	230Vac, 800W
Flashing light output	230Vac, 100W
Courtesy light output (AUX)	230Vac, 100W
Operating temperature range	-10 +60°C



1	Antenna's shield	18 - 19	Motor capacitor
2	Antenna	20	Motor output - OPEN
3	Input OPEN / START (NO) – see menu OL	21	Motor output - CLOSE
4	Input CLOSE / PEDESTRIAN (NO) – see menu OL	22	Motor output - COMMON
5	Common	23	Earth connection
6	Photocell input (NC - NO) see advanced menu PC During the pause: Reload the pause time During closing: Reverses the motion of the motors	24 - 25	AC Power connection 230V
7	DETECT quick closing input (NO)	26 - 27	Courtesy light (25-26) / red-green traffic light control (see advanced menu CR)
8	PHOTOSTOP / PROTECTION input (NC / NO see advanced menu Pt )	28 - 29	AC power out 24V- 250mA
9	Common	TR1	Slowdown speed adjustment
10	Limit switch Open input (NO/NC, see advanced menu L5) If both limit switches open they are disabled.	TR2	Motor power adjustment
11	Limit switch Close input (NO/NC, see advanced menu L5) If both limit switches open they are disabled.	TR3	Slowdown time adjustment
12	Stop input (NO/NC, see advanced menu 5P) In every operation it blocks the gate.	TS1- TS3	Buttons UP/DOWN
13	Common	TS2	ENTER button
14 - 15	Output positive / negative 12Vdc – 250mA	DSP	Display
16 - 17	Blinker with two working modes (see advanced menu BL)	F1	230Vac outputs fuse, 5A Fast

**INPUT STATUS**

When the board is in standby, the status of the inputs is shown on the display:

--	NO INPUTS ACTIVE	5T	START INPUT ACTIVE
5P	STOP INPUT ACTIVE	PD	PEDESTRIAN INPUT ACTIVE
PT	PROTECTION INPUT ACTIVE	OP	OPEN INPUT ACTIVE
P5	PHOTOSTOP INPUT ACTIVE	CL	CLOSE INPUT ACTIVE
PC	PHOTOCELLS INPUT ACTIVE	FC	LIMIT SWITCH CLOSE
DT	DETECT INPUT ACTIVE (QUICK CLOSE)	FO	LIMIT SWITCH OPEN

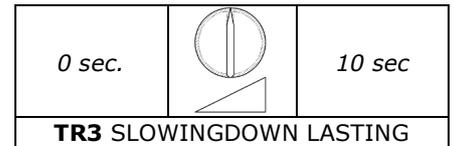
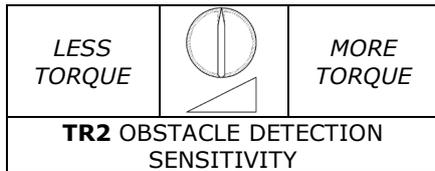
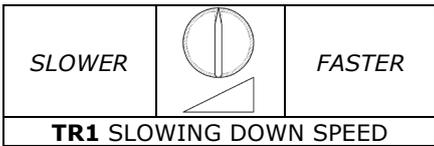
**! ATTENTION:** During pause, the display show the seconds countdown to closing.  
If Mass mode is selected (see advanced menu), display show the number of entrance allowed.

**TRIMMERS**

TR1 SD SPEED - Regulates the slowing down speed.

TR2 FORCE - Regulates the obstacle detection sensibility from 0% to 100%. **ATTENTION:** during the first 2 seconds of running the control unit gives 100% of the power to the motor (starting power)

TR3 SD TIME -Regulates the slowing down lasting from 0 to 10 seconds (about)



**SPECIAL FEATURES:**

**SELF PROGRAMMING**

This board in most chases doesn't need any working time programming to work. If the working time hadn't been programmed, at each first complete opening (from closing limit switch to opening limit switch.) after a power reset the board will calculate itself a value for the current gate and sets the slowing down starting from next closing. This self-learned setting can be deleted by resetting the board or by programming the working time.

**QUICK PROGRAMMING**

To quickly program the working times, keep pushed up till you read LT on the display (3 seconds). If the gate/barrier isn't fully closed, it will close till the limit switch, then it will open to the Opening limit switch, and finally it closes once.

**Attention:** if you aren't sure about gate/barrier direction, set it in fully closed position before to start programming, the board will assume the engaged limit switch as closing side, and will manage motor direction automatically (see "GD" menu in advanced menu)

**QUICK LEARNING OF REMOTE CONTROLS**

Briefly press the down key (C1 appears on the display), then transmit a start / open command.

To enter a pedestrian command / close, briefly press the down key twice (C2 appears on the display).

To enter a command to switch on the courtesy light, briefly press the down key (on the display) 3 times C3 appears).

**Auto Learning transmitters:**

It's possible to learn transmitters quickly without using the base menu. To insert a new transmitter, transmit 3 times with the new remote, making at least 1 second pause between each transmission. Then transmit 3 times with a transmitter already in memory and then once with the new. When programming is done, the stop led on the keyboard flash once.

**Attention:** This function must be enabled, refer to "advanced menu AR".

**MASS ENTERING MODE**

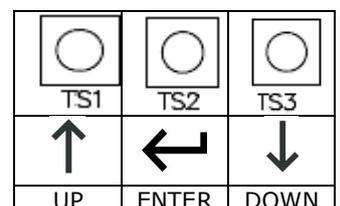
In this mode, if you push 5 times Open command (example), the control unit count 5 cars passing through the detect sensor, then it closes the barrier. This mode must be enabled in advanced menu (MM). This mode can be enabled just when automatic closing is disabled.

**USE OF UP, MODE AND DOWN BUTTONS FOR PROGRAMMING**

Control unit function programming is made within a special configuration menu, to which you can access and where you can shift through DOWN, MENU and UP keys placed under the display. The configuration menu consists in a list of configurable items; the display shows the selected item.

- By pressing DOWN, you will pass to the next item
  - By pressing UP, you will return to the previous item
  - By pressing together UP and DOWN buttons you exit from the function
  - By pressing MODE, you can view the current value of selected item and possibly change it.
- There are 2 main menus:

- *BASE PROGRAMMING:* only the useful parameters for a base programming are displayed.
- *ADVANCED PROGRAMMING:* parameters of the advanced menu are displayed.

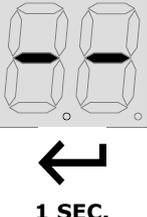


## BOARD PROGRAMMING

### BASE MENU

Push enter button shortly to enter base menu. OI is displayed, with up/down it's possible to select other functions of this menu. To exit this menu select EX or push up and down together. After 20 seconds without actions, control unit exits itself from this menu.

### BASIC MENU SCHEME

	<b>oL</b> Operating logic	← ↓↑	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;"><b>5T</b></td> <td>Step by step mode: inputs 3 &amp; 4 works as Start and Pedestrian start.</td> </tr> <tr> <td style="text-align: center;"><b>At</b></td> <td>Step by step mode with auto closing: inputs 3 &amp; 4 works as Start and Pedestrian start.</td> </tr> <tr> <td style="text-align: center;"><b>CD</b></td> <td>Condominium mode: inputs 3 &amp; 4 works as Start and Pedestrian start.</td> </tr> <tr> <td style="text-align: center;"><b>Oc</b></td> <td>Open/Close mode: inputs 3 &amp; 4 works as Open and close.</td> </tr> <tr> <td style="text-align: center;"><b>oa</b></td> <td>Open/Close mode with auto closing: inputs 3 &amp; 4 works as Open and close.</td> </tr> <tr> <td style="text-align: center;"><b>EX</b></td> <td>EXIT or push ↓↑ together</td> </tr> </table>	<b>5T</b>	Step by step mode: inputs 3 & 4 works as Start and Pedestrian start.	<b>At</b>	Step by step mode with auto closing: inputs 3 & 4 works as Start and Pedestrian start.	<b>CD</b>	Condominium mode: inputs 3 & 4 works as Start and Pedestrian start.	<b>Oc</b>	Open/Close mode: inputs 3 & 4 works as Open and close.	<b>oa</b>	Open/Close mode with auto closing: inputs 3 & 4 works as Open and close.	<b>EX</b>	EXIT or push ↓↑ together
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<b>oa</b>	Open/Close mode with auto closing: inputs 3 & 4 works as Open and close.														
<b>EX</b>	EXIT or push ↓↑ together														

<b>LC</b> Radio code learning	← ↓↑	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;"><b>c1</b></td> <td>Learn Start / Open command (according to OI menu).</td> </tr> <tr> <td style="text-align: center;"><b>c2</b></td> <td>Learn Pedestrian / Close command (according to OI menu).</td> </tr> <tr> <td style="text-align: center;"><b>c3</b></td> <td>Learn Courtesy light (see advanced menu LX).</td> </tr> <tr> <td style="text-align: center;"><b>ra</b></td> <td>Remove all codes</td> </tr> <tr> <td style="text-align: center;"><b>EX</b></td> <td>EXIT or push ↓↑ together</td> </tr> </table>	<b>c1</b>	Learn Start / Open command (according to OI menu).	<b>c2</b>	Learn Pedestrian / Close command (according to OI menu).	<b>c3</b>	Learn Courtesy light (see advanced menu LX).	<b>ra</b>	Remove all codes	<b>EX</b>	EXIT or push ↓↑ together
<b>c1</b>	Learn Start / Open command (according to OI menu).											
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<b>c3</b>	Learn Courtesy light (see advanced menu LX).											
<b>ra</b>	Remove all codes											
<b>EX</b>	EXIT or push ↓↑ together											

**LC LEARN RADIO CODE** - Select LC and push enter, with up/down select sub menu.  
**C1:** Learns a remote. Select this menu and transmit to learn a Start/Open command.  
**C2:** Learns a remote. Select this menu and transmit to learn a Pedestrian/Close command.  
**C3:** Courtesy light activation  
**RA:** Remove all codes, select this menu, than select y5 (yes) in the next menu to remove all codes.

	<b>LT</b>	Working times learning	← ↓↑	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;"><b>AU</b></td> <td>Automatic learning procedure</td> </tr> <tr> <td style="text-align: center;"><b>EX</b></td> <td>EXIT or push ↓↑ together</td> </tr> </table>	<b>AU</b>	Automatic learning procedure	<b>EX</b>	EXIT or push ↓↑ together
<b>AU</b>	Automatic learning procedure							
<b>EX</b>	EXIT or push ↓↑ together							

**LT EARN WORKING TIME** - Select LT in the base menu and push enter, after select the learning mode with up/down. The gate/barrier closes till the closing limit switch, then it opens to the Opening limit switch, and finally it closes once.

**ATTENTION:** if you aren't sure about gate/barrier direction, set it in fully closed position before to start programming, the board will assume the engaged limit switch as closing side, and will manage motor direction automatically (see "GD" menu in advanced menu).

To stop Learning procedure, switch Stop input.

<b>5P</b>	Set pause time	←	↓↑    0 – 99
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**5P SET PAUSE TIME** - Use up/down to set the pause time between 0 and 99 seconds. Push enter to confirm. To EXIT without modifications, push together up and down.

<b>DM</b> Dead man mode	← ↓↑	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;"><b>OP</b></td> <td>Open motor</td> </tr> <tr> <td style="text-align: center;"><b>CL</b></td> <td>Close motor</td> </tr> <tr> <td style="text-align: center;"><b>EX</b></td> <td>EXIT or push ↓↑ together</td> </tr> </table>	<b>OP</b>	Open motor	<b>CL</b>	Close motor	<b>EX</b>	EXIT or push ↓↑ together
<b>OP</b>	Open motor							
<b>CL</b>	Close motor							
<b>EX</b>	EXIT or push ↓↑ together							

**DM DEAD MAN MODE.** By selecting this menu it is possible to move the gate in dead man mode:

**O1:** Gate opens, press and hold ENTER in this menu to move the gate in dead man mode.

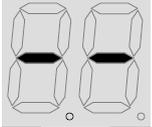
**C1:** Gate closes, press and hold ENTER in this menu to move the gate in dead man mode.

<b>EX</b>	EXIT	←
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## ADVANCED MENU

Keep enter button pushed till on the display is shown TM (almost 4 seconds). With up/down it's possible to select all items in this menu. To exit this menu select EX or push up/down together. After 20 seconds without actions, control unit exits itself from this menu.

### ADVANCED MENU SCHEME

  <b>4 SEC.</b>	<b>tm</b> Working times menu	 	T1 Working time	 0 – 99
			TP Pedestrian time	
			tc Courtesy light time (x 10 sec)	
			ex EXIT or push ↓↑ together	

**tm** Working times menu:

In this menu it's possible to modify working times of control unit:

T1 – Working time

tp – Pedestrian time

tc – Courtesy light time (in ten of seconds)

EX – Exits from advanced menu

Once selected working time to be changed, use up/down to modify it from 0 to 99 seconds. Push enter to confirm.

To exit without modifications select **ex** or push together up and down.

	<b>gd</b> Gate direction	 	Rh Gate direction right
			Lf Gate direction left
			ex EXIT or push ↓↑ together

**GD GATE DIRECTION** - Set if direction of the gate is right (RH) or left (LF). Use up/down to choose, ENTER to confirm.

	<b>pc</b> Photocell input polarity	 	No Normally open
			nc Normally close
			ex EXIT or push ↓↑ together

**PC PHOTOCELL INPUT POLARITY** - Set if photocell input is NO or NC. Use up/down to choose NO (NO), NC (NC) or exit (EX). Push ENTER to confirm.

	<b>pt</b> Photostop/Protection mode	 	No Normally open
			nc Normally close
			ex EXIT or push ↓↑ together

**PT PHOTOSTOP / PROTECTION INPUT POLARITY** - Set if Photostop/Protection input is NO or NC. The PT input works as Photostop (P5) if Sliding gate mode is selected, while it works as Protection (PT) when the barrier mode is selected (see advanced menu BR).

**P5 – Photostop Mode (NC):** During closing it stops the gate while this input is engaged, on release the gate opens. Photostop input during opening it stops the gate till the command it's released. After a photostop command the next direction is always opening.

**PT – Protection mode (NO):** While closing, Protection command reverses opening completely. In opening phase Protection command is ignored. The gate can't close while Protection command is engaged.

	<b>5p</b> Stop input polarity	 	No Normally open
			nc Normally close
			ex EXIT or push ↓↑ together

**5P STOP INPUT POLARITY** - Set if Stop input is NO or NC. Use up/down to choose NO (NO), NC (NC) or exit (EX). Push ENTER to confirm.



<b>L5</b>	Limit switches polarity	 	<b>No</b> Normally open
			<b>nc</b> Normally close
			<b>ex</b> EXIT or push ↓↑ together

L5 LIMIT SWITCHES POLARITY - Set if L5 are NO or NC. Use up/down to choose NO (NO), NC (NC) or EXIT (EX). Push enter to confirm.

↓↑

<b>Pr</b>	Motor power in fast speed	 	0 - 10
			<b>ex</b> EXIT or push ↓↑ together

PR MOTOR POWER IN FAST SPEED - Set the motor power (fast speed) between 1 (10%) and 10 (100%).

↓↑

<b>pl</b>	Motor power in slowing down	 	0 - 10
			<b>ex</b> EXIT or push ↓↑ together

PI MOTOR POWER IN SLOWING DOWN - Set the motor power (slowing down) between 1 (10%) and 10 (100%).

↓↑

<b>55</b>	Soft start	 	<b>Y5</b> Enabled
			<b>Nt</b> Disabled
			<b>ex</b> EXIT or push ↓↑ together

55 SOFT START - Set if soft start is active (Y5) or not (NT). Soft start make a linear power slope to avoid mech shoks at start.

↓↑

<b>bl</b>	Blinker mode	 	<b>Y5</b> Enable blinking
			<b>Nt</b> Disable blinking (for flashing lights equipped with a flashing board)
			<b>ex</b> EXIT or push ↓↑ together

BL BLINKER MODE - Set if blinker output works as blinker, or as semaphore signal. Use up/down to choose blinker mode (Y5), Semaphore mode (NT) or exit (EX). Push ENTER to confirm.

↓↑

<b>cr</b>	(Aux) Courtesy light mode	 	<b>Y5</b> Enabled
			<b>Nt</b> Disabled
			<b>ex</b> EXIT or push ↓↑ together

CR (AUX) COURTESY LIGHT MODE - Set if AUX dry contact works as courtesy light or as blinker. Use up/down to choose courtesy light mode (Y5), Blinker mode (NT) or exit (EX). Push enter to confirm.

↓↑

<b>D2</b>	Load defaults	 	<b>Y5</b> Enabled
			<b>Nt</b> Disabled
			<b>ex</b> EXIT or push ↓↑ together

D2 LOAD FACTORY SETTINGS - To reset the control unit to factory conditions, select this menu and then confirm by selecting YES (Y5).

↓↑

<b>rc</b>	Release torque at the end of closing	 	<b>Y5</b> Enabled
			<b>Nt</b> Disabled
			<b>ex</b> EXIT or push ↓↑ together

RC RELEASE AT END OF CLOSING - By activating this function (Y5) the motor will perform a brief inversion at the end of closing, in order to release the mechanical tension.



Ar	Remote learning of transmitters	 	Y5	Enabled
			Nt	Disabled
			ex	EXIT or push ↓↑ together

AR REMOTE LEARNING OF TRANSMITTERS- Enables (y5) or disables (nt) remote control learning (see chapter Remote control self-learning).



rm	Receiver mode	 	1b	Independent insertion
			4b	Automatic insertion
			ex	EXIT or push ↓↑ together

RM RADIO MODE

-1B: Each button of a new transmitter enter separately. User can choose the associated channel (c1 Start/open, c2 Pedestrian/close, c3 courtesy light command).

-4B: Once you enter a button of transmitter in memory, All other buttons works. Each button take a channel between (open, close, pedestrian and stop)



cn	Counter	 	00	1 pair of digits
			00	2 pair of digits
			00	3 pair of digits
			ex	EXIT or push ↓↑ together

CN COUNTER Show the counter in 3 groups of 2 numbers. Example: 123.456 is displayed as : 1.2 - 34. - 56



MM	Mass mode	 	Y5	Enabled
			Nt	Disabled
			ex	EXIT or push ↓↑ together

MM MASS MODE - In this menu you can enable the mass enter mode. This mode can be enabled just when pause time is 00, this means when automatic closing is disabled. In this mode, if you push 5 times Open command (example), the control unit count 5 cars passing through the detect sensor, then it closes the barrier.



br	Barrier logic	 	Y5	Enabled
			Nt	Disabled
			ex	EXIT or push ↓↑ together

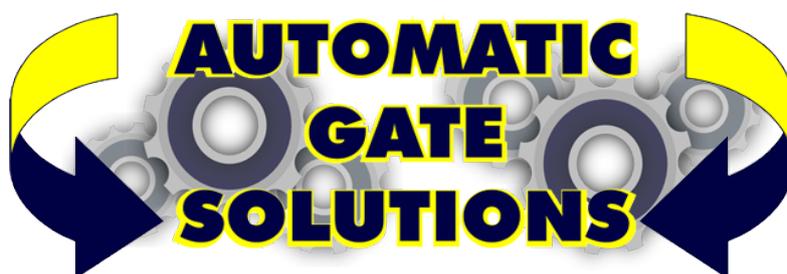
BR BARRIER LOGIC - Enables (y5) or disables (nt) the barrier operating logic. When the barrier logic is disabled, the control unit uses the standard program to control a sliding gate.



EX	
----	---

**DEFAULT SETTINGS**

<b>DISPLAY</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>
ol	Operating logic	5T	
Lc	Radio code learning		
Lt	Working times learning		
5p	Pause time	10	
Dm	Dead man mode		
tm	Working times menù	T1 Working Time	1.8 ( 180sec.)
		Tp Pedestrian opening time	08
		tc Courtesy light time	12
Gd	Gate direction	rh	
Pc	Photocell input polarity	No	
Pt	Photostop / Protection mode	Pt	
5p	Stop input polarity	No	
L5	Limit switches polarity	no	
Pr	Motor power in fast speed	10	
PI	Motor power in slowing down	10	
55	Soft Start	Y5	
Bl	Blinker mode	Y5	
Cr	(Aux) Courtesy light mode	Y5	
D2	Load defaults		
Rc	Release torque at the end of closing	Nt	
Ar	Remote learning of transmitters	Nt	
Rm	Receiver mode	1b	
Cn	Counter		
Mm	Mass mode	nt	
br	Barrier logic	nt	





Need some help or advice with your installation?

Keep this sheet handy because you might need this email address –  
[service@automaticsolutions.com.au](mailto:service@automaticsolutions.com.au)

Internet and technology give us the ability to have a technician look at your install and help solve problems whether they are the initial installation or years later.

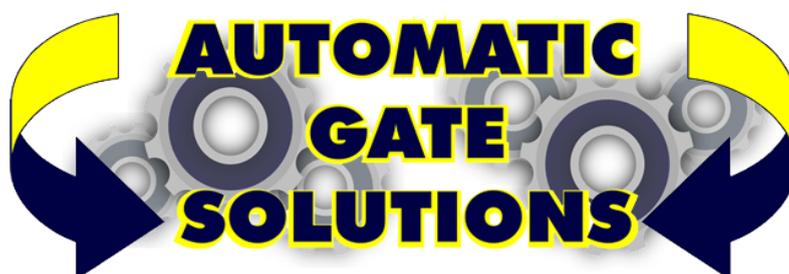
1. Don't start dismantling anything until advised.
2. Email the service department at the address above.

#### SEND US YOUR PHOTOS AND GIVE US SOME EYES ON SITE

- Photo of the overall scene – we should be able to see the whole gate/s in this one photo.
- A couple of photos of the gate hinges (if swing gates).
- Photos of both opening stops and closing stops.
- Photo of the connections to any battery.
- A couple of photos of the control board wiring.
- Any other shots you think important.

NB: Please resize your photos before emailing.

Please attach photos as attachments and do not imbed them in the email.



[www.automaticgatesolutions.com.au](http://www.automaticgatesolutions.com.au)