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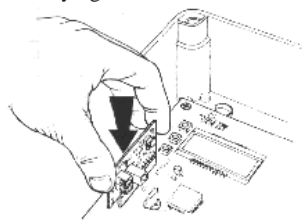
PROGRAMMING

The new PD2 electronic programmer, designed and carried out by V2 ELETTRONICA, finds its application in the installations of automated sliding gates with the utmost reliability and safety.

Thanks to the versatility of this product, it is possible to satisfy all requirements with functionality and efficiency.

PD2 is equipped with a display which enables, besides an easy programming, the constant monitoring of the inputs' state; furthermore, its menu structure enables a simple layout of the working times and function logics. It is built by a sophisticated surface assembly technique and it is characterized by the complete electrical isolation between the digital circuit and the power. According to the safety standard UNI 8612, it is equipped with an electronic torque regulator. The presence on board of a quick input connector enables the input of a module receiver of the series MT or MQ: it is therefore possible to employ the four available radio channels, associated to the controls: START, PEDESTRIAN START, STOP and ACTIVATION AUXILIARY EXIT.

Furthermore, this control unit is equipped with an output for the connection of the pilot lamp indicating the state of the gate, and an output to control the switching on and off of the courtesy lights.



PLUG-IN RECEIVER INSERTION

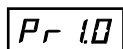
CONTROL PANEL

First of all make the connections mentioned above before switching on the power station.

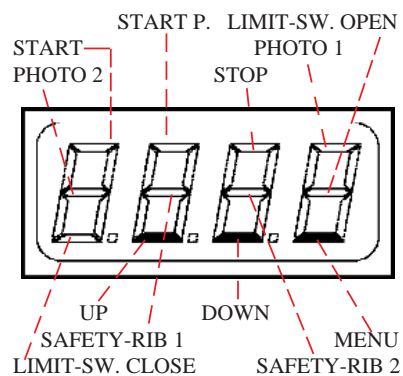
The power station will check DISPLAY 's correct functioning activating the different sections for 1,5 seconds



After this, on the display appears the software version for 1,5 seconds. Example:



The display shows the control panel:



The control panel shows the actual state of the contacts and programming keys: if the contact is closed the higher section is illuminated, if the contact is open, the lower section is illuminated. The drawing above illustrates the case where no input has been connected.

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PD2 has a menu programming structure. Each menu corresponds to a function of the unit (function menu) or to the setting of a working time (time menu). The time menus enable the adjustment of the unit's working times (Ex.: opening or closing time, pre-flashing time, etc.) and can be set from 0 to 120 seconds by a scanning of $\pm 0,5$ s. On the other hand, the function menus enable the activation of the wished functions (Ex: timed courtesy lights, PHOTO2 disconnected, active automatic closing, etc.).

There are a few time menus depending on specific function menu (Ex.: if the AUTOMATIC CLOSING is activated, it is necessary to set a STANDSTILL TIME, if not connected, it is necessary to re-set it); in order to facilitate the programming, these time menus have been put into a few function menus, on which they depend. Specifically the menus: AUTOMATIC CLOSING (Ch.AU), LIGHTS (LUCi), and PHOTOCELL IN STANDSTILL (Ft.PA) present among the various options a few time menus.

FUNCTION OF THE BUTTONS, MENU, UP and DOWN

When the programming function is activated, press the button UP or DOWN to select the menu, by shifting forward or backward (keep the button pressed for a quick shifting). Press the button MENU to enter the settings which can be modified by pressing the buttons UP and DOWN.

WHEN THE PROGRAMMING

FUNCTION IS NOT ACTIVE, PRESSING THE BUTTON UP CORRESPONDS TO THE CONTROL START, PRESSING THE BUTTON DOWN CORRESPONDS TO THE CONTROL PEDESTRIAN START: IT IS POSSIBLE TO CHECK THE SYSTEM NOW.

After supplying power, the display must show the control panel (make sure that the connections are correct).

Keep the MENU button pressed until the display shows:



Now the programming is activated: if within 1 minute no operation is carried out, the programming goes automatically off displaying again the control panel. We can define the programming of the PD2 by two different ways: STANDARD PROGRAMMING (DEFAULT) and PERSONALIZED PROGRAMMING.

STANDARD PROGRAMMING (DEFAULT)

dEF is the Default program set by V2 Elettronica. If you wish to memorize it, proceed as follows.

Press MENU key: the display show no.

Press MENU key to confirm: the display shows dEF.



Press DOWN key: the display shows FinE.

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Press *MENU* key: the display shows **no.**

no

Select the option **Si** pressing *UP* or *DOWN*.

5,

Press *MENU* key to confirm: the display shows the control panel.

The default standard data have been memorized and the control unit is ready to be used.

PERSONALIZED PROGRAMME

This type of programme enables you to change the working times and all the main functions, according to the user's requirements: by pressing *UP* or *DOWN* keys is possible to select the wished menu (For a quick shifting keep the key pressed. After the amendment, press the key "END OF PROGRAMMING" and quit: the new data has been memorized.

ATTENTION: in case no inputs are made for more than 1 minute, the control box goes automatically out from the programme and the amendment are not memorized.

OPENING TIME

This menu is adjustable from 0 to 120 seconds ($\pm 0,5$) and determines the time for the opening of the gate.

Press *UP* or *DOWN* keys, until the display shows:

tAP

Press the *MENU* key, the display shows:

225

Set the wished time pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm: the display shows the writing: **t.AP.**

OPENING TIME OF PEDESTRIAN GATE

This menu is adjustable from 0 seconds to t.AP ($\pm 0,5$) and determines the opening time of gate.

Press *UP* or *DOWN* keys, until the display shows:

tAPP

Press the *MENU* key, the display shows:

60

Set the wished time pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm: the display shows the writing: **t.APP.**

CLOSING TIME

This menu is adjustable from 0 to 120 seconds ($\pm 0,5$) which is the closing time for gate. To avoid the uncompleted closing of the gate, we suggest to set a longer opening time of t.AP.

PROGRAMMING

Press *UP* or *DOWN* keys, until the display shows:

tCh

Press the *MENU* key, the display shows:

235

Set the wished time pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm: the display shows the writing **t.Ch.**

CLOSING OF PEDESTRIAN GATE

This menu is adjustable from 0 to t.Ch ($\pm 0,5$) and determines the closing time of gate. In order to avoid the uncompleted closing of the gate, we suggest to set a longer opening time of t.APP.

Press *UP* or *DOWN* keys, until the display shows:

tChP

Press the *MENU* key, the display shows:

70

Set the wished time pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm: on the display will appear: **t.ChP.**

PRE-FLASHING TIME

This menu permits the introduction of a pre-flashing that occurs before any movement of the gate either in opening or in closing phase: the time of pre-flashing can be adjusted from 0 to 120 seconds ($\pm 0,5$).

Press the keys *UP* or *DOWN* until the display shows:

tPrE

Press the *MENU* key, the display shows:

10

Set the wished time pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear **t.PrE.**

MOTOR POWER

This menu permits to adjust the motor power from 30 to 100% with a scanning of $\pm 0,5$.

Press the keys *UP* or *DOWN* until the display shows:

Pot

Press the *MENU* key, the display shows:

40

Set the wished value pressing the *UP* or *DOWN* keys.

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Press the *MENU* key to confirm, on the display will appear **Pot.**

START OFF

When the gate is at a standstill and is going to move, it is contrasted by the starting inertia. As a consequence of this, if the gate is very heavy the gates might not move. By activating the start off function, it is possible to win the initial inertia thanks to the motor start to the maximum of the power for 2 seconds.

Press the keys *UP* or *DOWN* until the display shows:

SPUn

Press the *MENU* key, the display shows one of the 2 writings:

- no** the motor start to the maximum the power is not activated.
- Si** the motor start to the maximum the power is activated.

Set the wished functions pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear **SPUn.**

START IN OPENING

This menu permits to select the functions of start during the opening phase.

Press the keys *UP* or *DOWN* until the display shows:

SEEP

Press the *MENU* key, the display shows one of the 3 writings:

- no** the command **START** is not available.
- ChiU** the command **START** close the gate.
- PAUS** the command **START** stop the gate and goes into in **PAUSE**.

Set the wished functions pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear **St.AP**

START IN CLOSING

This menu permits to select the functions of start during the closing phase.

Press the keys *UP* or *DOWN* until the display shows:

SECh

Press the *MENU* key, the display shows one of the 2 writings:

- StoP** the command **START** stop the gate
- APEr** the command **START** open the gate

Press the *MENU* key, the display shows one of the 2 writings.

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Press the *MENU* key to confirm, on the display will appear **St.Ch.**

START IN PAUSE

This menu permits to select the functions of the command start during the standstill.

Press the keys *UP* or *DOWN* until the display shows:

SEPA

Press the *MENU* key, the display shows one of the 2 writings:

- no** the command **START** is not available. **THIS FUNCTION CANNOT BE SELECTED UNTIL THE AUTOMATIC CLOSING HAS BEEN ACTIVATED (menu Ch.AU).**
- ChiU** the command **START** closes the gate.

Set the wished functions pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear **St.PA.**

PEDESTRIAN START IN OPENING

This menu permits to select the functions of the command of **START P.** during the opening phase.

Press the keys *UP* or *DOWN* until the display shows:

SPAP

Press the *MENU* key, the display shows one of the 3 writings:

- PAUS** the command **PEDESTRIAN START** stops the gate and goes in **PAUSE**.
- no** the command **PEDESTRIAN START** is not available
- ChiU** the command **PEDESTRIAN START** closes the gate.

Set the wished functions pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear **SP.AP.**

THE PHOTOCELL IN PAUSE

This menu permits to determine the functioning of two photocells during the pause phase.

Press the keys *UP* or *DOWN* until the display shows:

FLPA

Press the *MENU* key, the display shows one of the 2 writings:

- rPAU** the interruption of the photocell's ray causes the top of the pause time; when the photocells work again, the pause time restart from zero;
- t.PCh** the interruption of the photocell's ray causes the top of the pause time;

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when the photocells work again, the gate stops for a time to be set between 0 to 120 seconds.

Press the *MENU* key to confirm, on the display will appear:

ChAU

Set the wished functions pressing the *UP* or *DOWN* keys.

Press the *MENU* key, the display shows one of the 2 writings:

- no** the automatic reclosing is not available, the gate is semiautomatic.
- t.PAU** the reclosing is available, the standstill time is set from 0 to 999.

Press the *MENU* key to confirm.

If the function is **t.PCh**, the display shows:

50

Press the button *UP* or *DOWN* to program the wished time.

Set the wished functions pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear: **Ft.PA.**

Press the *MENU* key to confirm

If the function is **rPAU**, on the display will appear: **Ft.PA.**

If the function is **t.PAU**, the display shows:

100

AUTOMATIC CLOSING

Permits the selection between the semiautomatic or automatic functioning. By the semiautomatic functioning the command of *START* or *PEDESTRIAN START* opens the gate, when the opening is complete the gate remains still until the successive command of opening, which will reclose it. On the other hand, it stops automatically and remains in pause phase for the set time (**t.PAU**), then it closes again through the set closing time. If the cycle is started with a *START*, the control unit ignores the command *START P.* until the end of the cycle. The in pause time is adjusted from 0 to 999 seconds.

Set the wished time pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear **Ch.AU**.

If the function is **no**, on the display will appear: **Ch.AU**.

IMPORTANT: If the automatic reclosing is not available, it is necessary to have the command *START* in *PAUSE* menu **St.PA.**

COURTESY LIGHTS

Thanks to the connection "warning light" the

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PD2 control unit enables the connection of the courtesy lights (I.E. garden lights), which can work automatically (lights on for the whole cycle) or timed (lights on for a time adjustable from 0 to 999 seconds). The lights turn on with a *START* or *PEDESTRIAN START* control. It is also possible to control this connection using the code memorized in the radio input **tEL4**, in this last case the connection "warning light" becomes an auxiliary connection to which it is possible to match one of the following functional logics:

monostable: it activates the output relay through all the tx transmission time, when the transmission ends the relay is disconnected.

bistable: it activates the relay with the tx first transmission, the relay disconnects with the second transmission.

timer: the tx transmission triggers the relay which disconnects automatically after a time adjustable between 0 and 999 seconds.

Press the keys *UP* or *DOWN* until the display shows:

LUCi

Press the *MENU* key, the display shows one of the 3 writings:

- t.LUC** the courtesy lights start from a time adjustable from 0 to 999 seconds.
- CiCL** the courtesy lights are on through the whole cycle.
- AUS** auxiliary exit with adjustable logical functioning.

Set the wished functions pressing the *UP* or

DOWN keys.

Press the *MENU* key to confirm

If the function selected is **AUX**, one of the following will appear on the display:

- tiM** timed auxiliary exit (time adjustable from 0 to 999 seconds)
- biSt** auxiliary output relay with bistable functioning
- Mon** auxiliary output relay with monostable functioning

Press the *UP* or *DOWN* keys to select the wished function.

Press the *MENU* key to confirm.

If the selected function is **tiM**, on the display will appear:

600

Press the *UP* or *DOWN* keys to select the wished time.

Press the *MENU* key to confirm, on the display will appear: **LUCi**.

If the selected function is **biSt** or **Mon** on the display will appear **LUCi**.

If the function is **t.LUC**, on the display will appear:

600

Press the *UP* or *DOWN* keys to select the wished time.

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Press the *MENU* key to confirm, on the display will appear: **LUCi**.

inLP

If the function is **CiCL**, on the display will appear: **LUCi**.

Press the *MENU* key, the display shows one of the 2 writings.

FLASHLIGHT IN PAUSE

This menu permits to activate or to deactivate the flashlight during the pause time.

no if the flashlight has no inner intermittence
Si the clock function is activated

Press the keys *UP* or *DOWN* until the display shows:

Set the wished functions pressing the *UP* or *DOWN* keys.

LPPA

Press the *MENU* key to confirm, on the display will appear: **in.LP**.

Press the *MENU* key, the display shows one of the 2 writings:

CLOCK FUNCTION

no not activated flashlight in pause
Si activated flashlight in pause

This function permits to program the time bands of opening and closing. It is necessary to connect a 24h timer with a contact normally open in parallel with the *START* or *PEDONAL START* input. When the timer contact is closed, the gate gets into opening phase and remains opened until the contact of the timer opens causing the re-closing of the gate.

Press the *MENU* key, the display shows one of the 2 writings.

Press the *MENU* key to confirm, on the display will appear: **LP.PA**.

FLASHLIGHT WITH INTERMITTENCE

The control unit PD2 permits the connection of a flashlight with or without intermittence. If the flashlight is equipped with an inner intermittence effect, it is necessary to select the option "Si", but if it has no inner intermittence, it is necessary to select the option "no" in order to make it flash.

IMPORTANT: FOR A CORRECT FUNCTIONING IT IS NECESSARY TO ACTIVATE THE AUTOMATIC CLOSING (menu **Ch.AU**.)

Press the keys *UP* or *DOWN* until the display shows:

oroL

Press the keys *UP* or *DOWN* until the display shows:

Press the *MENU* key, the display shows one of the 2 writings:

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INPUT STOP

no the clock function is not activated
Si the clock function is activated

This menu permits to select the functions associated to the command of *STOP*. Press the *UP* or *DOWN* keys until on the display appears:

Set the wished functions pressing the *UP* or *DOWN* keys.

Stop

Press the *MENU* key to confirm, on the display will appear **oroL**.

Press the *MENU* key, the display shows one of the 3 writings:

BRAKE

This menu enables the activation of the brake function by which it is possible to avoid improper motion of the gate after impulse or safety intervention (the gate continues moving instead of immediately stopping). This inconvenience occurs when a plate-clutch motor is employed on a very heavy gate: because of the inertia, the gate does not stop immediately but keeps moving for a few dozens centimetres undermining its safety.

no the input *STOP* is not available
ProS the input *STOP* stops the gate: pressing the command *START* the gate continues the motion
invE the command *STOP* stops the gate: at the next *START* the gate starts moving in the opposite direction.

Press *UP* or *DOWN*, until the display shows:

NOTE: During the pause *STOP* stops the gate: pressing the command *START* will always re-closing the gate.

FrEn

Press *UP* or *Down* to select the wished function.

Press *MENU*, the display shows:

no the brake function is disconnected
Si the brake function is activated

Press menu to confirm. the display shows **StoP**.

Press *UP* or *DOWN* to select the wished function.

INPUT PHOTO 1

Press *MENU* to confirm: the display shows: **FrEn**.

The photocell 1 (contact normally closed) is a safety device which is active during opening and closing: the intervention of the photocell during the closing halts the gate, after the photocell is cleared the gates reverses the

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movement. On the other hand, the intervention of the photocell during opening halts the gate, when the photocell is cleared the gate re-starts opening. It is necessary to install photocell 1 in a proper way, to make it cover the gate's action ray.

Press the *UP* or *DOWN* keys until the display shows:

Fot 1

Press the *MENU* key, the display shows one of the 2 writings:

- no** the opening of PHOTO1 is not available
- APCh** the opening of PHOTO 1 is available for the connection of the photocell

Set the wished functions pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear **Fot1**.

INPUT PHOTO 2

The photocell 2 is active in closing: if it is dimmed during the closing it stops the gate and inverts the motion. The option CFCh activates the photocell even when the gate is still: closed gate means that no impulse has been given, either it is in pause or it has received a STOP command. In this case through all the time of the darkening of the photocell the control unit does not receive any command of activation at any opening/closing cycle.

Press the *UP* or *DOWN* keys until on the display appears:

Fot 2

Press the *MENU* key, the display shows one of the 3 writings:

- no** the input PHOTO 2 is not available
- CFCh** the input PHOTO 2 is available: the photocell is active in closing and also when the gate is still
- Ch** the input PHOTO 2 is available: the photocell is active only during the closing

Set the wished functions pressing the *UP* or *DOWN* keys.

Press the *MENU* key to confirm, on the display will appear **Fot 2**.

INPUT SAFETY RIB 1

The input SAFETY RIB 1 (contact normally closed) enables the connection of the rib, active safety during opening and closing. Its intervention during opening halts the gate, reverses its motion for 3 seconds and blocks it: next START or START P restores the opening. On the other hand, the intervention of the rib 1 during closing blocks the gate: the next START or START P. restores the closing.

Press *UP* or *DOWN*, until the display shows:

CoS 1

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Press *MENU*, the display shows either:

- no** the input COS 1 is disconnected.
- Si** the input COS 1 is activated for the connection of the rib.

Press *UP* or *DOWN* to choose the wished function.

Press *MENU* to confirm, the display shows: **Cos 1**.

INPUT SAFETY RIB 2

The input SAFETY RIB 2 (contact normally closed) enables the connection of the safety rib, safety active during opening and closing. Its intervention during the closing halts the gate reverses the motion for 3 s and blocks it: the next START or START P. restores the closing motion. On the other hand, the intervention of the rib 2 during opening halts the gate and blocks it: the next START or START P. restores the opening motion.

Press *UP* or *DOWN*, until the display shows:

CoS 2

Press *MENU*, the display shows one of the two writings:

- no** the input COS 2 is disconnected.
- Si** the input COS 2 is activated for the connection of the safety rib.

Press *UP* or *DOWN* to select the wished function.

Press *MENU* to confirm, the display shows: **CoS 2**.

INPUT LIMIT SW. OPEN

This input (contact normally closed) enables the connection of a limit switch which can be magnetic or micro-switch. This safety device is connected during the opening phase: its intervention halts the gate and prevents it from coming out from the rail.

Press *UP* or *DOWN*, until the display shows:

FCA

Press *MENU*, the display shows one of the two writings:

- no** the input LIMIT SW. OPEN is disconnected.
- Si** the input LIMIT SW. OPEN is activated for the connection of the limit switch active during opening.

Press *UP* or *DOWN* to choose the wished function.

Press *MENU* to confirm, the display shows: **FCA**.

INPUT LIMIT SW CLOSE

The input LIMIT SW. CLOSE (contact normally closed) enables the connection of the limit switch which can be magnetic or micro-switch. This safety device is active during the closing motion: its intervention halts the gate and prevents it from going out from the rail.

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Press *UP* or *DOWN*, until the display shows: **tEL3** → STOP transmitting the code associated to **tEL3**, the control unit receives a STOP

FCC

Press *MENU*, the display shows one of the two writings:

no the input LIMIT SW. CLOSE is disconnected.

Si the input LIMIT SW. CLOSE is activated for the connection of the limit switch active during closing.

Press *UP* or *DOWN* to choose the wished function.

Press *MENU* to confirm, the display shows: **FCC**.

RADIO INPUTS

The PD2 control unit enables to plug in a superreactive or quarzed module receiver of the MT or MQ series. It has 4 radio-channels in which four codes must be memorized. They must all belong to the same standard (53200, K and KF).

Each of the four radio channels tEL1, tEL2, tEL3 tEL4 is associated to a function of the unit:

tEL1 → START transmitting the code associated to **tEL1**, the control unit receives a START

tEL2 → PEDESTRIAN START transmitting the code associated to **tEL2**, the control unit receives a PEDESTRIAN START

tEL4 → AUXILIARY OUTPUT by transmitting the code memorized in **tEL4**, the unit activates the relay of auxiliary output.

INPUT RADIO 1 (tEL1)

Press *UP* or *DOWN*, until the display shows:

tEL 1

Press *MENU*, the display shows:

tRAS

Press and keep pressed the button of the transmitter to be memorized.

If the code has been properly memorized the display shows:

rEC

Release the button, the display shows: **tEL1**.

If you try to input an already memorized code, the display shows the channel in which it is memorized (Ex.: tEL3).

INPUT RADIO 2 (tEL2)

Press *UP* or *DOWN*, until the display shows:

tEL 2

PROGRAMMING

Press *MENU*, the display shows: been memorized (Ex.: **tEL1**).

tRAS

INPUT RADIO 4 (tEL4)

Press and keep pressed the button of the transmitter to be memorized.

Press *UP* or *DOWN*, until the display shows:

tEL 4

If the code has been correctly memorized the display shows:

Press *MENU*, the display shows:

tRAS

Release the button, the display shows: **tEL2**.

Press and keep pressed the button of the receiver to be memorized.

If you try to input an already memorized code, the display shows the radio channel where it has been memorized (Ex.: **tEL4**).

If the code has been correctly memorized, the display shows:

rEC

INPUT RADIO 3 (tEL3)

Press *UP* or *DOWN*, until the display shows:

Release the button, the display shows: **tEL4**.

tEL 3

if you try to input an already memorized code, the display shows the channel where it has been memorized (Ex.: **tEL2**).

Press *MENU*, the display shows:

tRAS

Press and keep pressed the button of the transmitter to be memorized.

NOTE: if the code to memorize into one of the four channels is not correctly learned, the display keeps showing **trAS**. The error may have been caused by incompatibility of the code's type, or wrong reception. In this latter case try to memorize again.

If the code has been correctly memorized the display shows:

rEC

END OF PROGRAMMING

Release the button, the display shows: **tEL3**.

This menu allows to finish the programming (both default and personalized) saving the modified data into memory.

If you try to input an already memorized code, the display shows the channel where it has

Press the *UP* or *DOWN* keys until on

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the display appears:

FinE

Press the *MENU* key to confirm, one of the following will appear on the display:

no further corrections to carry out: do not quit the programming
Si end of programming

Press the *UP* or *DOWN* keys to select the wished function.

Press the *MENU* key to confirm.

If the function is **no**, on the display will appear: **FinE**.

By pressing *UP* or *DOWN* you can scroll the menus to make modifications.

If the function is **Si**, on the display will appear the control panel.

The inserted data have been memorized: the control unit is ready to be used.

INSTRUCTIONS FOR THE INSTALLATION

The installer must provide for a device (es. magnetothermal switch) ensuring the omnipolar sectioning of the PD2 equipment from the power supply.

The standards require a separation of the contacts of at least 3 mm in each pole (CEI EN 60335-1).

The equipment is designed for non enclosed installations.

For the connection of stiff or flexible tubes and fasteners, use connectors according to IP55 protection grade.

WARNING LIGHT DESCRIPTION

The warning light shows in real time the state of the gate:

STOP → light off
IN PAUSE → light always on
DURING OPENING → the light flashes slowly (2 Hz)
DURING CLOSING → the light flashes rapidly (4 Hz)

TERMINAL CONNECTIONS

In order to facilitate the connections, the PD2 control unit is equipped with two entirely removable terminal blocks.

1. Antenna masquade.
2. Antenna shield.
3. Opening control for the connection of: push-button panel, key switch and timer. Contact normally open.
4. Pedestrian opening control for the connection of: push-button panel, key switch and timer. orologio. Contact normally open.
5. Stop. Contact normally closed.
6. Common (-).

PROGRAMMING

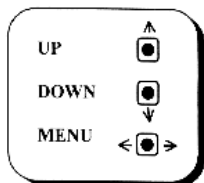
7. Photocell 1. Contact normally closed.
8. Photocell 2. Contact normally closed.
9. Safety bar 1. Contact normally closed.
10. Safety bar 2. Contact normally closed.
11. Common(-).
12. Limit switch during opening. Contact normally closed.
13. Limit switch during closing. Contact normally closed.
- 14.-15. Output power supply 24 Vac for photocells and other accessories.
- 16.-17. Pilot lamp 24 Vac 3W.
- 18.-19. Flashlight 220 Vac 40 W.
- 20.-21. Contact for courtesy light 220 Vac 10 A.
22. Output motor opening.
23. Common motor.
24. Output motor closing and connection of the rephasing capacitor
25. Terminal for the connection of the rephasing capacitor.
26. Neutral power supply 230 Vac.
27. Power supply phase 230 Vac.

TECHNICAL SPECIFICATIONS

Power supply: 230 Vac; 50Hz
Max motor load: 700 W
Max load accessories powered at 24V: 10 W
Working environment temperature: -20°C / +60°C
Protection fuses: 5A for line 230Vac
400mA for line 24Vac
Dimensions: 220x170x80 mm
Weight: 1,65 Kg

IMPORTANT: it is necessary to connect the rephasing capacitor between the terminals 24 and 25.

FUNCTION CHART

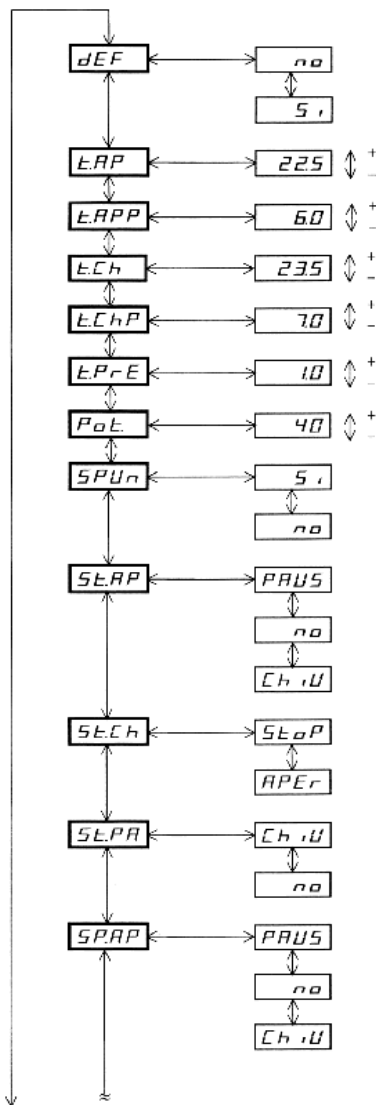


For the use of the function chart proceed as follow:

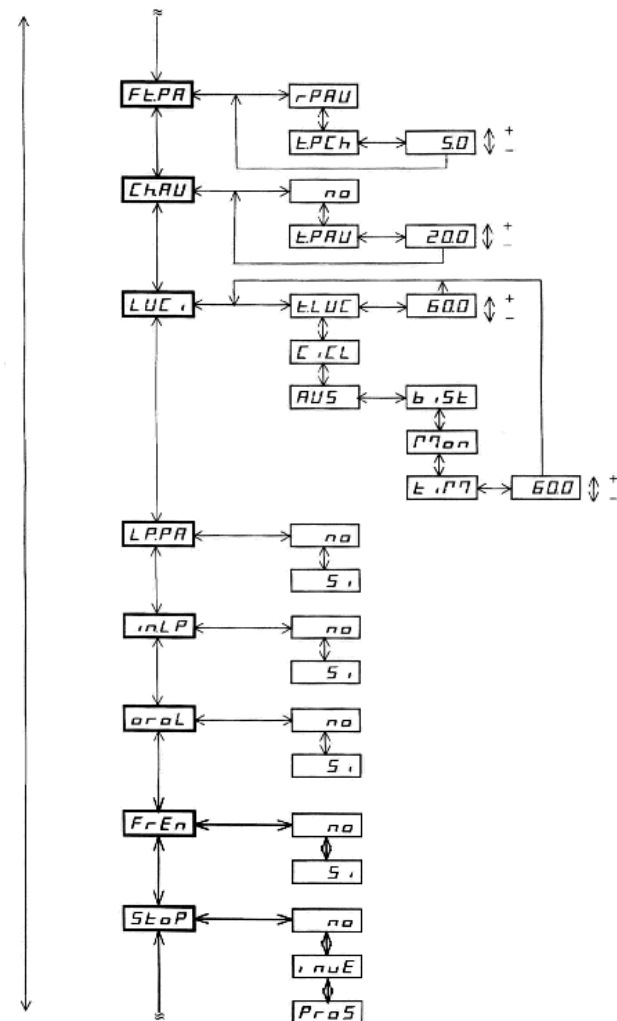
- press *DOWN* key to flow the chart from the top to the bottom. The functions **dEF**, **t.AP1**, **t.AP2** etc.. will be appear.

- press *UP* key to flow the chart from the bottom to the top;

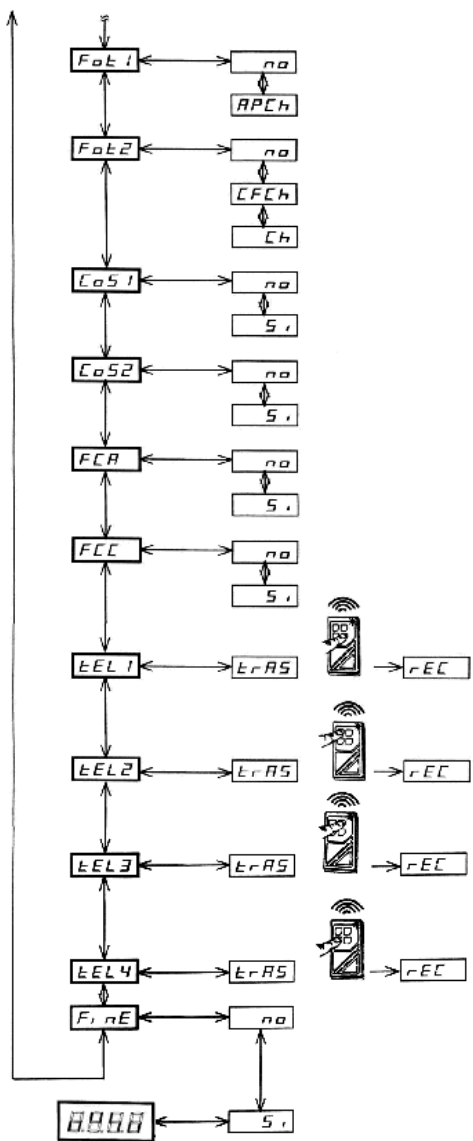
- press *MENU* key to flow the chart horizontally; for example, if the **t.ChP** function is displayed, by pressing the *MENU* key the number **70** will be displayed. Increase the number pressing *UP* or *DOWN*. Press *MENU* to display function **t.ChP** again.



FUNCTION CHART



FUNCTION CHART



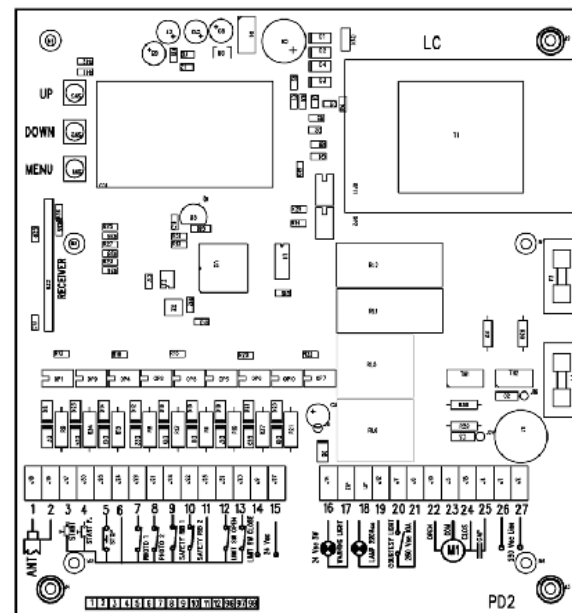
FUNCTION TABLE PD2

N.	DISPLAY	DATAS	DESCRIPTION	DEFAULT DATAS	MEMO DATAS
0	dEF	no/Si	Load V2 standard datas	no	
1	t.AP	0 - 120 s	Opening time	22.5	
2	t.APP	0 - t.AP1	Opening time of pedestrian gate	6.0	
3	t.Ch	0 - 120 s	Closing time	23.5	
4	t.ChP	0 - t.Ch1	Closing time of pedestrian gate	7.0	
5	t.PrE	0 - 120 s	Pre-flashing time	1.0	
6	Pot.	30 to 100%	Motor power	40	
7	SPUn	no/Si	Start off	Si	
8	St.AP	no ChiU PAUS	Start in opening - START command is not available - command close the gate - stop the gate and goes in Pause	PAUS	
9	St.Ch	Stop APEr	Start in closing - command START stop the gate - command START open the gate	StoP	
10	St.PA	no chiU	Start in pause - START command is not available - START command closes the gate	ChiU	
11	SP.AP	no ChiU PAUS	Pedestrian in opening - P START command is not available - P START closes the gate - gate goes in pause	PAUS	
12	Ft.PA	rPAU t.PCh	Photocell in pause - Pause time recharged - gate stop for a time to be set between 0 to 120 seconds	r.PAU	

FUNCTION TABLE PD2

N.	DISPLAY	DATAS	DESCRIPTION	DEFAULT DATAS	MEMO DATAS
13	Ch.AU	no t.PAU	Automatic closing - automatic closing not available - reclosing is available, the standstill time is set from 0 to 999 s	No	
14	LUCi	CiCL t.LUC AUS timer bISt Mon	Courtesy light - lights are on trough the whole cycle - lights start time adjustable from 0 to 999 s - auxiliary output --- timed aux out (from 0 to 999 s) --- aux out relay with bistable functioning --- aux out relay with monostable functioning	t.LUC =60 s	
15	LP.PA	no/Si	Flashlight in pause	no	
16	In.LP	no/Si	Flashlight with intermittence	no	
17	OroL	no/Si	Clock function	no	
18	FrEn	no/Si	Brake	no	
19	StoP	no invE ProS	Input STOP - input STOP not available - input STOP stops the gate: pressing the command START gate continues the motion - STOP command stops the gate: START command starts moving in the opposite direction	no	
20	Fot 1	no APCh	Input PHOTO 1 - not available - photocell active during the opening & the closing	no	
21	Fot 2	no CFCh Ch	Input FOTO 2 - not available - input available: photocell is active in closing and also when the gate is still - input available: photocell active during the closing	CFCh	
22	CoS1	Si/no	SAFETY RIB1 input	Si	
23	Cos2	Si/no	SAFETY RIB2 input	Si	
24	FCA	Si/no	LIMIT SW. OPEN input	Si	
25	FCC	Si/no	LIMIT SW CLOSE input	Si	
26	tEL 1		Radio input associated to START command		
27	tEL 2		Radio input associated to Ped START command		
28	tEL 3		Radio input associated to STOP command		
29	tEL 4		Radio input associated to courtesy light		
30	Fine	no/Si	End of programming	no	

PCB AND CONNECTIONS



NOTE For the connection of the cables to the clamp, use the plastic small band for the cables connected with the accessories and for the cables connected with the supply power