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DESCRIPTION

The digital station PD7 is an innovative V2 ELETTRONICA product that guarantees a safe and reliable automation of one- and two-shutter gates.

The design of PD7 has been designed to realize a product that meets all kind of requirements, with a highly versatile station that satisfies all the necessary requirements for a functional and efficient installation.

PD7 is provided with a display that, not only makes programming simple, but also allows a continuous monitoring of the input statuses; in addition, thanks to a menu structure, the working schedule and the operation logic can be set easily.

With regard to the European regulations concerning electrical safety and electromagnetic compatibility (EN 60335-1, EN 50081-1, and EN 50082-1), PD7 is characterized by a complete isolation between the digital circuit and the power circuit.

Other characteristics:

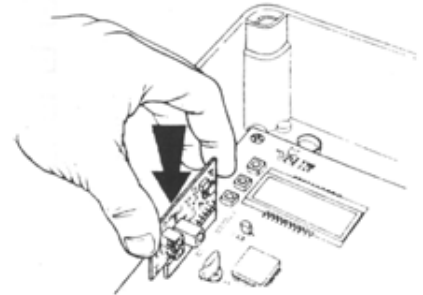
- Automatic relay zero-current switching control.
- Wave choke power adjustment.

A total compatibility with the Personal Pass system allows to:

- use the memory modules MEM200 (318 different remote codes that can be stored);
- delete one or more codes in the memory;
- delete, with a single action, all the codes in the memory and insert other ones;
- use control devices such as:
IDENTIFICATION UNIT (VRD)
WIRED DIGITAL SELECTOR (TTNC).

By means of the PROG 2 portable programming device and of the WINPPCL / PPCL software, any action can be promptly performed and all the necessary data for a complete plant management can be changed, filed, and printed.

A specially provided plug-in connector allows insertion of A MT-433-series receiver, having a high sensitivity super heterodyne architecture.

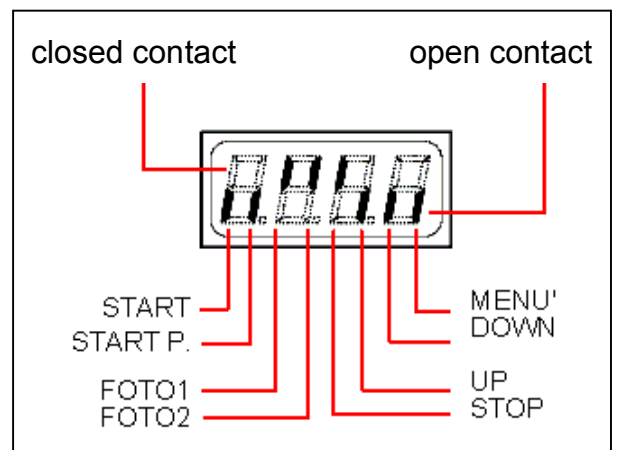


PLUGGING THE RECEIVER MODULE IN

CONTROL PANEL

Perform the electrical connections to the terminal board, then supply power to the system: the unit will check the operation status of the display, by turning all the segments on for 1,5 seconds (**8.8.8.8**); after this, the display will show the firmware version for 1,5 seconds, for instance **Pr 1.0**.

Now, the display will show a control panel:



The control panel represents the physical status of the terminal board contacts and of the program mode keys: if the upper vertical segment is on, the contact is closed; if the lower vertical segment is on, the contact is open (the above picture shows an instance where the inputs START, START P, PHOTO1, PHOTO2, and STOP have all been correctly connected).

PROGRAMMING

The PD7 unit presents a programming structure with menus, each of which corresponds to a function in the unit (function menu) or to a working time setting (time menu).

Time menus allow adjusting the unit working times (e.g.: leaf opening or closing time, locking time, preflashing time, etc.), which can be set from 0 to 120 seconds with a $\pm 0,5$ seconds interval.

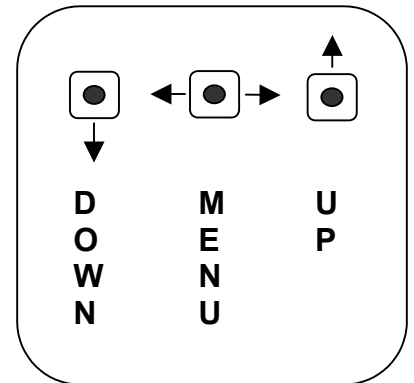
On the other side, the function menu are used to activate the required functions (e.g. timed lights, PHOTO1 active as a traveling edge, PHOTO2 inactive, etc.).

Some time menus depend on certain function menus (e.g.: if the AUTOMATIC CLOSING is activated – but only in this case – a TIME-OUT need to be set); then, to simplify the programming, these time menus have been placed in the function menus on which they depend. Specifically, menus AUTOMATIC CLOSING (Ch.AU), ANTISKID (ASM), and PHOTOCCELL TIME-OUT (Ft.PA) offer some “time menus” among the selectable options.

FUNCTION OF BUTTONS MENU, UP AND DOWN

When the program mode function is activated, press key UP or DOWN to select the menus, thus performing a forward or backward shift (for a fast shift, press and hold). Press key MENU to access the settings in order to change them through keys UP and DOWN.

- Pressing the UP key, the menu functions can be scrolled from below.
- Pressing the DOWN key, the menu functions can be scrolled from above.
- Pressing the MENU key, the settings to be changed can be accessed and selected by pressing again.



ATTENTION: when the program mode function is not activated, pressing of the UP key corresponds to the START command, pressing of the DOWN key corresponds to the PEDESTRIAN START command: this way, the service engineer is enabled to perform the test and the set-up.

To activate the program mode, proceed as follows.

After powering the unit, the display should show the control panel (therefore, check that the connections made are correct).

Press and hold key *MENU* until the display shows **dEF**.

Now the program mode is activated: if no action is performed within 1 minute, the unit will exit the program mode and show the control panel again. The PD7 unit can be set up in two different program modes: DEFAULT PROGRAM MODE or CUSTOM PROGRAM MODE.

DEFAULT PROGRAM MODE

This type of programming allows loading the V2 ELETTRONICA default program in the memory: the standard data that will be inserted automatically are shown in the table below (in the column DEFAULT DATA).

The display should show **dEF**.

- Press MENU: the display will show **no**.
- Press UP or DOWN: the display will show **si**
- Press MENU to confirm: the display will show **dEF**.

Now, to memory-store the standard data, exit the program mode: follow the instructions in the "end of programming" menu.

PERSONALIZED PROGRAM MODE

This type of programming allows changing the working times and the unit functions, according to the user's needs: by means of the UP and DOWN keys, the required menus can be selected (for a fast scrolling, the key must be held). When the changes are completed, select the "END OF PROGRAMMING" menu and exit: the new data are stored in the memory.

CAUTION: if, during the programming, no actions are performed within 1 minute, the unit automatically exits the program mode and any changes made are discarded.

GATE 1 OPENING TIME

This menu is adjustable from 0 to 120 seconds ($\pm 0,5$) and determines the time of opening of gate 1.

- Press UP or DOWN keys, until the display shows **t.AP1**
- Press the MENU key, the display shows **22.5**
- Set the wished time pressing the UP or DOWN keys.
- Press the MENU key to confirm: the display shows the writing: **t.AP1**.

GATE 2 OPENING TIME

This menu is adjustable from 0 to 120 seconds ($\pm 0,5$) and determines the time of opening of gate 2.

- Press UP or DOWN keys, until the display shows **t.AP2**
- Press the MENU key, the display shows **22.5**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing: **t.AP2**.

OPENING TIME OF PEDESTRIAN GATE

This menu is adjustable from 0 seconds to t.AP1 ($\pm 0,5$) and determines the opening time of pedestrian gate.

- Press UP or DOWN keys, until the display shows **t.APP**
- Press the MENU key, the display shows **6.0**
- 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 GATE 1

This menu is adjustable from 0 to 120 seconds ($\pm 0,5$) which is the closing time for gate 1. To avoid the uncompleted closing of the gate, we suggest to set a longer opening time of t.AP1.

- Press UP or DOWN keys, until the display shows **t.Ch1**
- Press the MENU key, the display shows **23.5**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing: **t.Ch1**

CLOSING TIME GATE 2

This menu is adjustable from 0 to 120 seconds ($\pm 0,5$) which is the closing time for gate 2. To be sure of the perfect closing of the gate, we suggest to set a longer opening time t.AP2.

- Press UP or DOWN keys, until the display shows **t.Ch2**
- Press the MENU key, the display shows **23.5**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing: **t.Ch2**

CLOSING OF PEDESTRIAN GATE

This menu is adjustable from 0 to **t.Ch1** (± 0.5) and determines the closing time of gate 1. 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 **t.ChP**
- Press the MENU key, the display shows **7.0**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing: **t.ChP**

CLOSING TIME GATE 2 DURING PEDESTRIAN CYCLE

Enables the adjustment from 0 to **tChP** (± 0.5) and determines the time through which gate 2 will close during the closing phase of the pedestrian gate.

- Press the keys UP or DOWN until the display shows **t.C2P**
- Press the MENU key, the display shows **0.0**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing: **t.C2P**

GATE DELAY DURING OPENING

In order to avoid any collision of the gate during the opening phase, the time of delay should be introduced **r.AP**, which is adjustable from 0 to 120 seconds (± 0.5). In such a case the opening time of gate 2 is delayed in comparison to the gate 1.

- Press the keys UP or DOWN until the display shows **r.AP**
- Press the MENU key, the display shows **1.0**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing: **r.AP**

GATE DELAY DURING CLOSING

In order to avoid the colliding of gate's during the closing the time of delay should be introduced **r.Ch**, which is adjustable from 0 to 120 seconds (± 0.5). In such a case the closing time of gate1 is delayed in comparison to the gate2.

- Press the keys UP or DOWN until the display shows **r.Ch**
- Press the MENU key, the display shows **3.0**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing: **r.Ch**

LOCK TIME

When the gate starts the opening phase, the control unit must excite the electro lock in order to hook it out and enable the opening of the gate. The time **t.SEr** determines the duration of excitation, and is adjustable from 0 to 120 seconds (± 0.5).

- Press the keys UP or DOWN until the display shows **t.SEr**
- Press the MENU key, the display shows **3.0**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing **t.SEr**

LOCK ADVANCE TIME

This menu permits to anticipate the excitation of the lock on a set time from 0 to **t.SEr** (with a scanning of ± 0.5). During the advance locking time the gate does not move so to always guarantee the unhooking of the electrical lock.

- Press the keys UP or DOWN until the display shows **t.ASE**
- Press the MENU key, the display shows **0.0**

- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing **t.ASE**

BACKLASH TIME

To avoid that the gate starts the opening phase before the electrical locks is unhooked, it is possible to introduce a time of inversion adjustable from 0 to 120 seconds ($\pm 0,5$). In this way during the opening phase, the gate inverts the motion through the set time permitting the unhooking of the electrical lock.

- Press the keys UP or DOWN until the display shows **t.inv**
- Press the MENU key, the display shows **0.0**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing **t.inv**

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 **t.PrE**
- Press the MENU key, the display shows **1.0**
- Set the wished time pressing the UP or DOWN keys
- Press the MENU key to confirm: the display shows the writing **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
- Press the MENU key to confirm: the display shows the writing **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 **St.AP**
- 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 **St.Ch**
- 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.
- 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 **St.PA**
- 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 **SP.AP**
- 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 **Ft.PA**
- 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; when the photocells work again, the gate stops for a time to be set between 0 to 120 seconds.
- Set the wished functions pressing the UP or DOWN keys.
- Press the MENU key to confirm.

If the function is **t.PCh**, the display shows **5.0**

- Press the button UP or DOWN to program the wished time.
- Press the MENU key to confirm, on the display will appear: **Ft.PA**.

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

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.

- Press the MENU key to confirm, on the display will appear **Ch.AU**
- 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.
- Set the wished functions pressing the UP or DOWN keys.
- Press the MENU key to confirm.

If the function is **t.PAU**, the display shows **10.0**

- 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).

FLASHLIGHT IN PAUSE

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

- Press the keys UP or DOWN until the display shows **LP.PA**
- Press the MENU key, the display shows one of the 2 writings:
 - no** not activated flashlight in pause
 - Si** activated flashlight in pause
- 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 PD7 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.

- Press the keys UP or DOWN until the display shows **in.LP**
- Press the MENU key, the display shows one of the 2 writings:
 - no** if the flashlight has no inner intermittence
 - Si** if the flashlight has internal intermittence
- Set the wished functions pressing the UP or DOWN keys.
- Press the MENU key to confirm, on the display will appear: **in.LP**.

MOTOR ANTI-SKID

The anti-skid function prevents that the repeated interruption of the opening and closing cycle causes delays in the cycle completion.

Example: $t.AP1 = t.AP2 = 25 \text{ s}$ $t.CH1 = t.CH2 = 26 \text{ s}$

The command START opens the gate, after 10 s. The command STOP closes it. The next START recloses the gate for 26 seconds, that is 16 seconds more than necessary. This could cause the motor overheating. The antiskid function eliminates the extra time and warrants the complete conclusion of the cycle, thanks to the adjustment of the time t.AAS.

This is an additional time in opening and in closing, adjustable from 0 to 120 seconds ($\pm 0,5$).

- Press the keys UP or DOWN until the display shows **ASM**
- Press the MENU key, the display shows one of the 2 writings:
 - no** the antiskid function is not activated
 - t.AAS** the antiskid function is active, with an additional time in opening and in closing adjustable from 0 to 120 seconds.
- Set the wished functions pressing the UP or DOWN keys.

- Press the MENU key to confirm.

If the function is **t.AAS**, on the display will appear **2.0**

- Set the wished time pressing the UP or DOWN keys.
- Press the MENU key to confirm, on the display will appear **ASM**.

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

START INPUT FUNCTION

Besides enabling connection of control devices with normally open contact, the PD7 station allows to employ a WIRED DIGITAL SELECTOR (TTNC) and a IDENTIFICATION UNIT (VRD).

By selecting the **Cod** option, it is possible to connect the TTNC or the VRD on the START input, in order to allow gate operation only to people having a code or an ACCESS key (VTR).

To enable the functionality:

- press UP or DOWN, until the display shows **St**
- press MENU: the display will show either one of the following writings:
 - Cod** the START input is enabled to connect WIRED DIGITAL SELECTOR (TTNC) and a IDENTIFICATION UNIT (VRD).
 - Cont** the START input is enabled to connect control devices with normally open contact.

PEDESTRIAN START INPUT FUNCTION

This is the same as the preceding function, but the connection with the WIRED DIGITAL SELECTOR (TTNC) or the IDENTIFICATION UNIT (VRD) is made on the PEDESTRIAN START input.

The activation of one of the connected devices acts then on the PEDESTRIAN START command:

- press UP or DOWN, until the display shows **St.P**
- press MENU, the display will show either one of the following writings:
 - Cod** the PEDESTRIAN START input is enabled for the connection TTNC or VRD.
 - Cont** the PEDESTRIAN START input is enabled for the connection of control devices with normally open contact.

CODE TYPES (WHEN ENABLED) ON THE START AND PEDESTRIAN START INPUTS

This function is only active when either one of the inputs, START or PEDESTRIAN START, are enabled to the code mode:

- press UP or DOWN, until the display shows **St.Co**
- press MENU, the display will show either one of the following writings:

tiP.b – if you are using the **wired digital selector (TTNC)**, select this mode.

tiP.A – if you are using the **identification unit (VRD)**, select this mode.

If you are using a VRD on an input and a TTNC on the other input, or both in parallel on one input, select code **tiP.A** anyway.

- Press UP or DOWN to select a function
- Press MENU to confirm, the display will show: **StCo**.

INPUT STOP

This menu permits to select the functions associated to the command of STOP.

- Press the UP or DOWN keys until on the display appears **StoP**
- Press the MENU key, the display shows one of the 3 writings:
 - 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.

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

- Press UP or Down to select the wished function.
- Press menu to confirm. the display shows **StoP**.

INPUT PHOTO 1

This input can be abilitated for the connection of two different safety devices: the photocell or the rib. The rib (contact normally closed) is an active safety device in opening and closing (now active during the backlash): its intervention during the opening phase stops the gate, inverts the motion for 4 s, without offsetting the doors. On the other hand, the intervention of the rib in closing phase stops the gate, inverts the motion with the offset of the doors. The photocell 1 (contact normally closed) is an active security in opening and closing: the intervention of the photocell during the closing stops the gate, at its disengagement the gate inverts the motion: Differently the intervention of the photocell in opening stops the gate, at its disengagement the gate starts opening again.

It is necessary to install the photocell 1 properly, in order to cover the action space of the gate.

- Press the UP or DOWN keys until the display shows **Fot 1**
- Press the MENU key, the display shows one of the 3 writings:
 - no** the opening of PHOTO1 is not available
 - APCh** the opening of PHOTO 1 is available for the connection of the photocell
 - Cost** the opening of PHOTO 1 is available for the connection of the rib.
- Set the wished functions pressing the UP or DOWN keys.
- Press the MENU key to confirm, on the display will appear **Fot 1**.

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**.

PHOTOCELL OPERATIONAL TEST

In order to achieve a safer operation for the user, the unit performs a photocell operational test, before a normal working cycle.

If no operational faults are found, the gate starts moving. Otherwise, it will stand still while the flashing light will stay on. The whole test cycle lasts less than one second.

- Press UP or DOWN, until the display shows **Ft.tE**
- Press MENU, the display will show either one of the following writings:
 - no** the test function is not active
 - si** the test function is active
- Press UP or DOWN to select a function.
- Press MENU to confirm: the display will show **Ft.tE**.

ROLLING CODE MODE

This menu enables activation of the "rolling code" mode, which prevents any attempt to copy or clone.

- Press UP or DOWN, until the display shows **roLL**
- Press MENU, the display will show either one of the following writings:
no function "rolling code" is not active
si function "rolling code" is active.
- Press UP or DOWN to select a function
- Press MENU to confirm: the display will show: **roLL**.

TOTAL DELETION OF THE CODES IN THE MEMORY

This menu allows deleting, in a single action, all the remote codes in the memory.

- Press UP or DOWN, until the display shows **CAnC**
- Press MENU, the display will show either one of the following writings:
no the total deletion will not be performed
si the total deletion will be performed
- Press UP or DOWN to select a function.
- Press and hold MENU, the display will show **oCC** during the deletion process

When the deletion is complete, the display will show **CanC** again.

RADIO INPUTS

To each memorized code one of the available four radio inputs is associated, in order to give the control unit the wished command; furthermore with simple and fast operations it is possible to carry out the partial or total clearing of the codes present in memory.

The connection of a modular super heterodyne receiver, allows the use of the four radio channels, tEL1 tEL2 tEL3 to each a command of the control unit is associated:

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

tEL3 STOP: transmitting the code associated to tEL3, the control unit receives a STOP

STORING NEW CODES

To store a remote control code, carefully observe the following instructions.

- Press UP or DOWN and select a radio input, the display will show (e.g.): **tEL 1**
- Press MENU, the display will show: **1.0.0.0**

The first digit represents the selected radio input (in this case, tEL1), the next three digits represent the selected memory zone. The dots after the second and the third digits represent the status of the memory zone: these dots are on if the zone is occupied, off if the zone is free.

- Press UP or DOWN to select a memory zone, making sure it is free (for a fast scrolling, hold the key pressed).

The unit is ready for the radio teaching:

- Press a key on the remote controller, until the display shows **rEC**

Release the remote controller key: if the code has been correctly stored, the display will show the next memory zone **1.0.0.1**

Now the unit is ready for a new code teaching. When the storage process is finished, press and release the MENU key: the display will show **tEL 1**.

CAUTION: when attempting to insert a code already present in the memory, the display shows the memory zone that is occupied by the transmitted code and its associated radio channel.

DELETING A SINGLE CODE

Press UP or DOWN and select one among the four available radio inputs, the display will show e.g. **tEL1**

- Press MENU, the display will show e.g. **1.0.0.0**

The first digits means the selected radio input (tEL1, in this case), the next three digits show the selected zone of memory.

- Press UP or DOWN to select a zone of memory, making sure it is busy (the dots after the second and the third digits must be on).
- Press and hold MENU until both dots go out **1.0 0 0**
- Release the button to confirm the deletion, the display will show: **tEL1**.

END OF PROGRAMMING

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

- Press the UP or DOWN keys until on 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.

TABLE OF PROGRAMMING FUNCTIONS

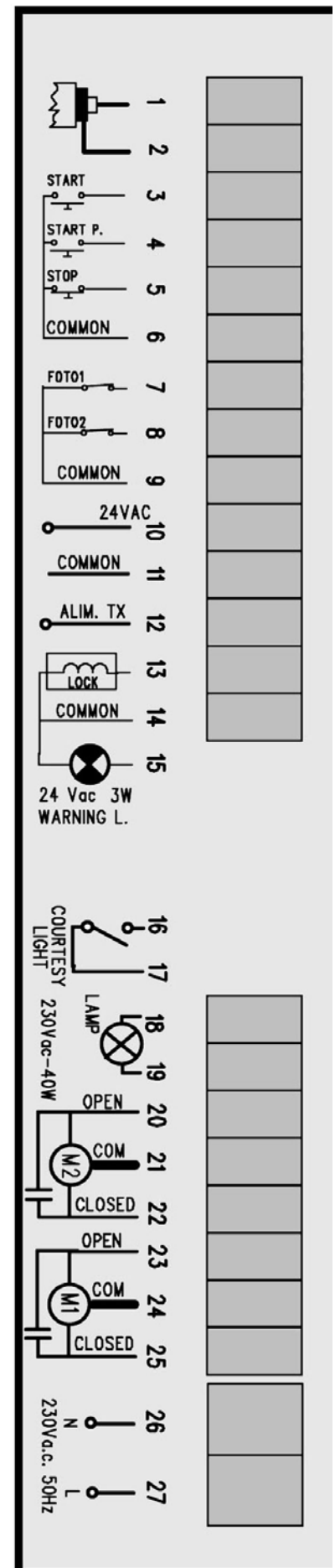
DISPLAY	DATA	DESCRIPTION	DEFAULT DATA	STO. DATA
Def	no / sì	Loading V2 ELETTRONICA standard data	no	
t.AP 1	0 – 120 s	Opening time leaf 1	22.5	
t.AP 2	0 – 120 s	Opening time leaf 2	22.5	
t.aPP	0 – t.AP1	Opening time pedestrian leaf	6.0	
t.Ch 1	0 – 120 s	Closing time leaf 1	23.5	
t.Ch 2	0 – 120 s	Closing time leaf 2	23.5	
t.Chp	0 – t.Ch1	Closing time pedestrian leaf	7.0	
t.C2p	0 – t.ChP	Closing time leaf 2 during pedestrian closing	0.0	
r.AP	0 – 120 s	Leaf opening delay	1.0	
r.Ch	0 – 120 s	Leaf closing delay	3.0	
t.SEr	0 – 120 s	Locking time	3.0	
t.ASE	0 – t.SEr	Locking advance time	0.0	
t.inv	0 – 120 s	Ram stroke time	0.0	
t.PrE.	0 – 120 s	Preflashing time	1.0	
Pot	30 – 100%	Motor power	40	
SPUn	no / sì	Maximum power motor starting	sì	
St.AP	no ChiU PAUS	Opening start - The START command is not sensed - The gate closes again - The gate stops	PAUS	
St.Ch	StoP APEr	Closing start - The gate finishes the cycle - The gate opens again	StoP	
St.PA	no ChiU	Stopping start - The START command is not sensed - The gate closes again	ChiU	
SP.AP	no ChiU PAUS	Opening pedestrian start - The PEDESTRIAN START command is not sensed - The gate closes again - The gate stops	PAUS	
Ft.PA	rPAU t.PCh	Photocell in pause - Resets the pause time - The gate closes again after the set time (0–120 s)	rPAU	
Ch.AU	no t.PAU	Automatic closing - Not active - Active with a pause from 0 to 999 sec.	no	
LP.PA	no / sì	Flashing light in pause	no	
In.LP	no / sì	Intermittent flashing light	no	

ASM	no t.AAS	Motor antiskid - Not active - Active with opening or closing added time with time adjustable from 0 to 120 seconds	t.AAS = 2.0 sec.	
St	Cod Cont	START input function - Digital code - Contact	Cont	
St.P	Cod Cont	START P input function. - Digital code - Contact	Cont	
St.Co	tiP.A tiP.b	START / START P input code type. - Input enabled for VRD device - Input enabled for TTNC device	tiP.A	
StoP	no invE ProS	STOP input - The input is disabled: the STOP command is not sensed - The STOP command stops the gate: the next START reverses the motion - The STOP command stops the gate: the next START does not reverse the motion	no	
Fot 1	no APCh CoSt	PHOTO 1 input - Disabled - Operates as a photocell that is active during the opening and the closing - Operates as a photocell that is active only during the closing	no	
Fot 2	no CFCh Ch	PHOTO 2 input - Disabled - Operates as a photocell that is active during the closing and when the gate is stopped - Operates as a photocell that is active only during the closing	CFCh	
Ft.tE	no / si	Photocell operational test	si	
roLL	no / si	Rolling Code mode Function that prevents any copying or cloning attempts, by means of a complex mathematical algorithm that recognizes the variable portion of the received code	si	
CanC	No / si	Deletion of all the codes: during the deletion process, the display shows oCC When the deletion is complete, the display shows again the writing CanC	no	
tEL 1		Radio input associated to the START command		
tEL 2		Radio input associated to the START P command.		
tEL 3		Radio input associated to the STOP command		
Fine	no / si	End of programming	no	

CONNECTIONS TO THE TERMINAL BOARD



TERMINALS	CONNECTIONS
1.	Antenna core.
2.	Antenna shield.
3.	Opening control for the connection of: control devices with normally open contact, TTNC, VRD. Contact normally open.
4.	Opening controls for pedestrian access for the connection of: control devices with normally open contact, TTNC, VRD. Contact normally open
5.	STOP command. Normally closed command.
6.	Common wire (-).
7.	Photocell 1. Normally closed contact.
8.	Photocell 2. Normally closed contact.
9.	Photocell common wire (-).
10. – 11.	24VAC power supply output for photocells and other attachments.
11. – 12.	Photocell TX power supply for functional tests.*
13. – 14.	Electrolocking 12 VAC
15. – 16. – 17.	UNUSED
18. – 19.	230 VAC flashing light
20.	230 VAC power supply output for motor 2 during the opening.
21.	Motor 2 common wire.
22.	230 VAC power supply output for motor 2 during the closing.
23.	230 VAC power supply output for motor 1 during the opening.
24.	Motor 1 common wire.
25.	230 VAC power supply output for motor 1 during the closing.
26.	230 VAC power supply neutral wire
27.	230 VAC power supply phase wire



TECHNICAL SPECIFICATIONS

Power supply	230 Va.c. 50 Hz / 60 Hz
Max motors load	700 W
Max accessories load powered 24 V	10 W
Working temperature	-20°C / 60°C
Protection fuse	F1 = 5 A for line 230 Va.c.
Dimensions	195 x 145 x 80 mm
Weight	1200 g
IP protection	55

INSTRUCTIONS FOR THE INSTALLATION



The installer must provide for a device (es. magnetothermal switch) ensuring the omnipolar sectioning of the PD7 equipment from the power supply.

The standards require a separation of the contacts of at least 3 mm in each pole (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.

CONFORMITY TO REGULATIONS

V2 ELETTRONICA S.p.a. declares that PD7 is in conformity with the provisions of the followings 93/68/EEC, 73/23/EEC, and that the standards referenced here below:

ELECTRICAL SAFETY	ELECTROMAGNETIC COMPATIBILITY
EN 60335 – 1	EN 50081 – 1 EN 50081 – 2

Racconigi, 15 / 10 / 01

V2 ELETTRONICA legal representative.

A.Livio Costamagna