



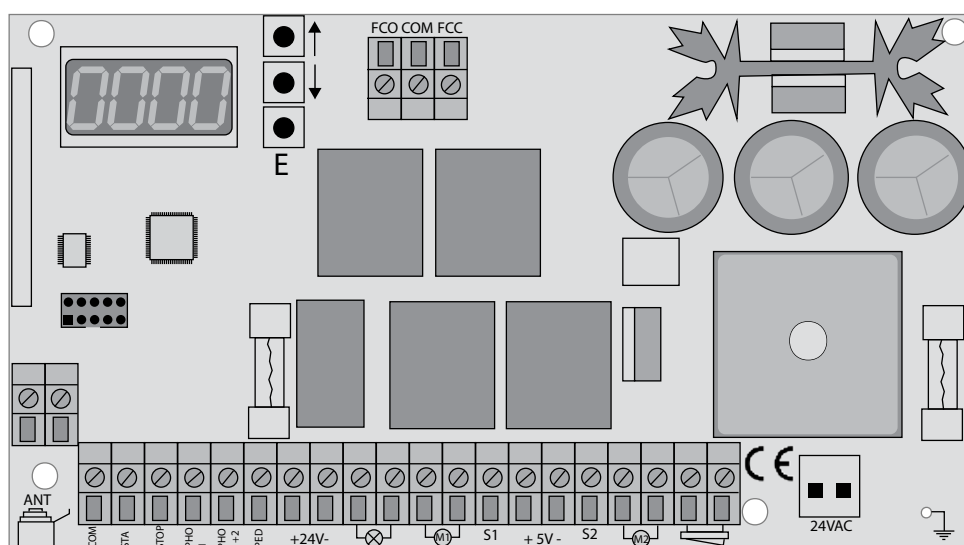
A24

IT ISTRUZIONI CENTRALE DI COMANDO A24

EN CONTROL UNIT A24 INSTRUCTIONS

FR INSTRUCTIONS CENTRALE DE COMMANDE A24

DE BEDIENUNGSANLEITUNG STEUERZENTRALE A24



Moving Ideas.

This manual is intended for qualified technical personnel responsible for installations.
Please read these instructions carefully prior to installation.
Improper use of the product or a connection error could affect proper operation and end user safety.

TECHNICAL DATA

Supply power: 230V ~ ±10% - 50Hz
On-board 433MHz receiver: 76 transmitters MAX
Operating temperature: -20°C / +60°C
Electronic anti-crushing device: amperometric + encoder

MAX flashing light output power: 24V~ - 25W
MAX electric lock output power: 12Vdc - 10W (max 2 Sec)
Accessory supply power 24V~ - 25W
Maximum motor power current: 3.5A+3.5A

INTENDED USE AND LIMITATIONS OF USE

The "H24" 24V version control unit is for use on automatic residential and condominium sliding gates for intensive use. Any use differing from that described herein or installations performed differently from that set forth in the following technical manual are prohibited.

DESCRIPTION OF PARTS

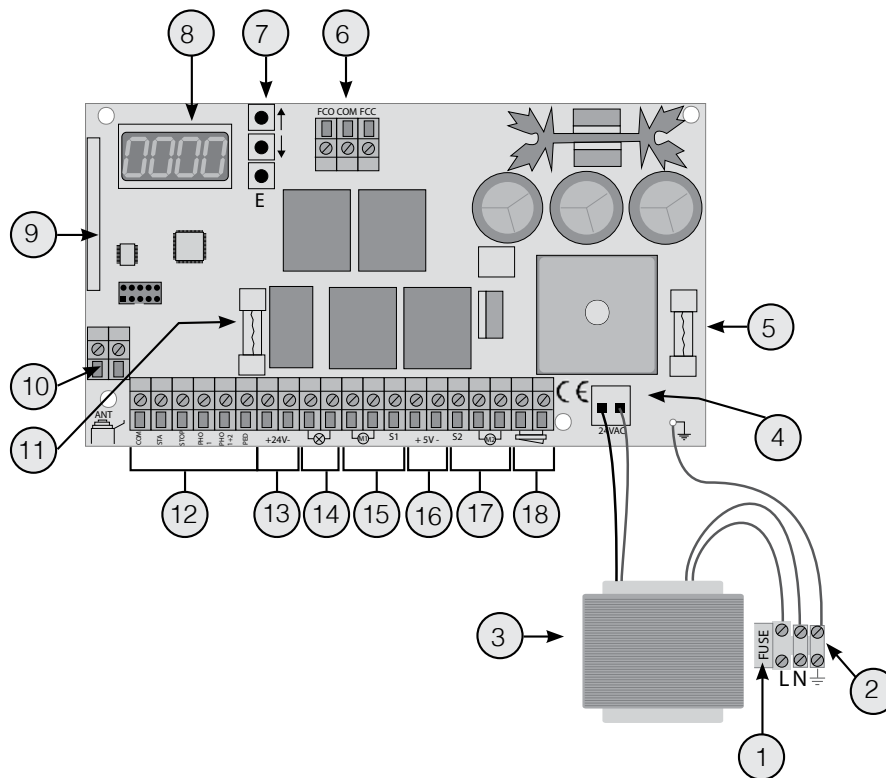


FIG 1

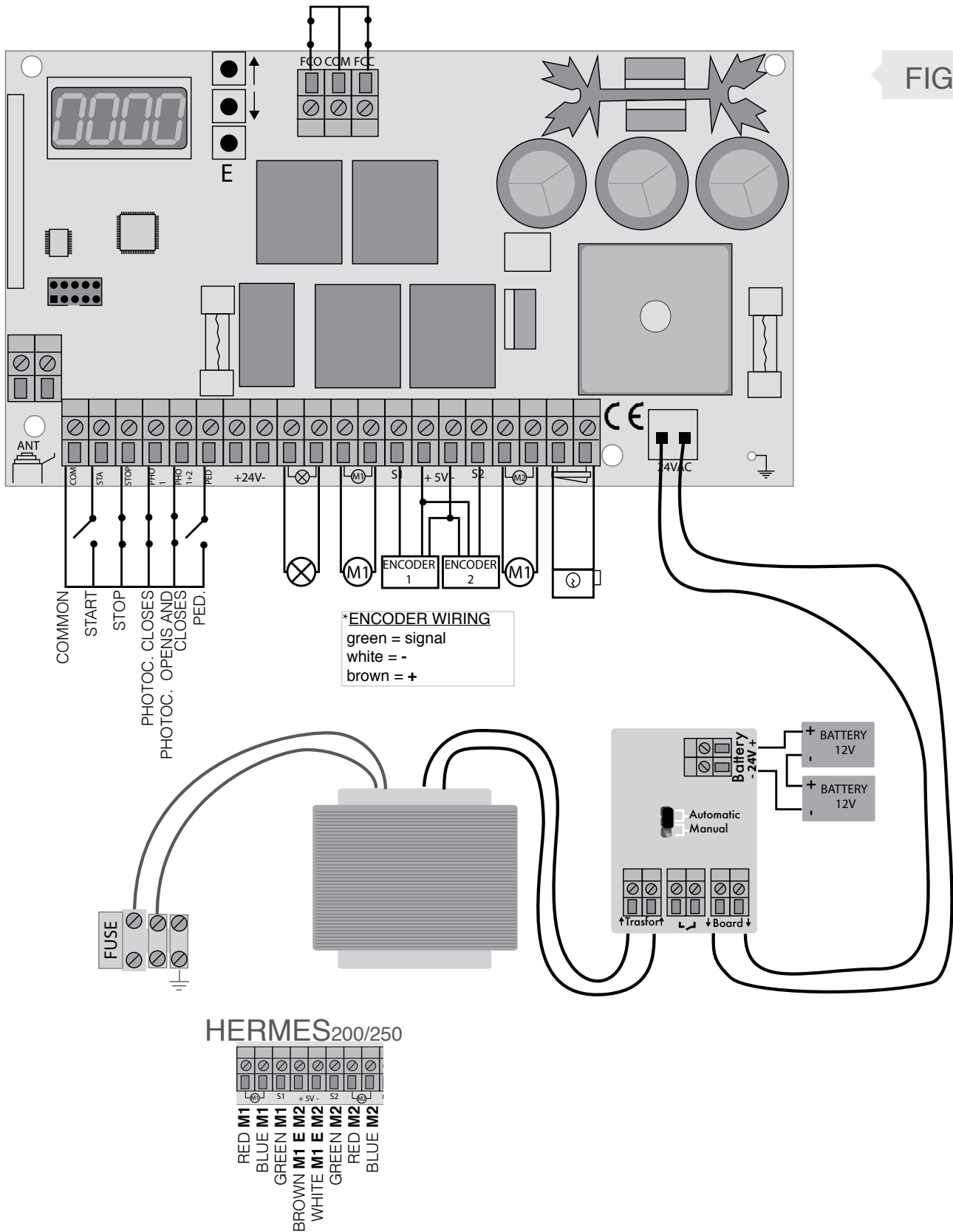
- 1- Line fuse 230V (T2.5A 5x20)
- 2- Terminal board for transformer line connection
- 3- Primary transformer 230V, secondary 24V~, 130VA
- 4- Molex power 24 V~, and hole for auxiliary grounding (to be welded)
- 5- Supply power fuse, (F10A 5x20)
- 6- Terminal board for mechanical/magnetic limit stop (ONLY for pre-set models)
- 7- Menu navigation buttons
- 8- 4-language LCD display (IT,EN,FR,ES)
- 9- Receiver model 433Mhz Rollingcode/fixed code
- 10- Terminal for external antenna
- 11- Auxiliary power fuse 24Vac, (F2A 5x20)
- 12- Terminal board for control and safety connection
- 13- Auxiliary power 24V~, (24Vdc with battery supply power)
- 14- Steady light flashing light power, 24V~ (24Vdc with battery supply power)
- 15- Motor 1 connection
- 16- Encoder supply power 5Vdc
- 17- Motor 2 connection
- 18- Electric lock 12Vdc 10W (max 2 sec)

ELECTRICAL CONNECTIONS



Caution!
Electrical connections must be made with power cut off
and with the battery charger kit disconnected, where present.

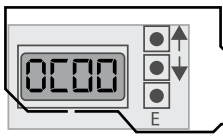
FIG 2



NAVIGATING THE MENU

Keep the following in mind when navigating inside the menu:

- if button "E" is pressed for 1s it functions as an "ENTER" button while if it is pressed for 3s it functions as an "ESC" button
- the control unit does not give any regard to control signals when the user is inside the menu



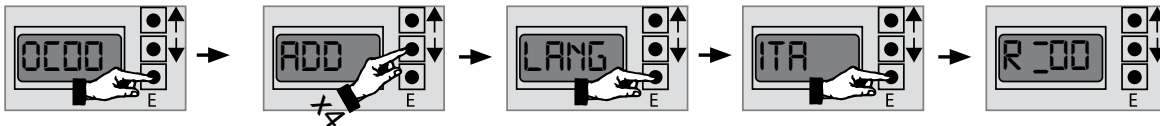
As shown, the home screen contains a code where the first and second character indicate the respective position of Motor 1 and Motor 2:
 0 = open
 C = closed
 The last two digits indicate the number of TX stored.

SETTING THE LANGUAGE

Stagnoli control units are available in 4 different languages:

ITALIAN - ENGLISH - FRENCH - SPANISH

The default language on the control unit is English. To change language, access the menu by pressing button "E", then press the down arrow four (4) times and then "E" again. Then use arrows $\uparrow\downarrow$ to choose the desired language and press "E".



SELF-LEARNING FOR SWING GATES

With this operation, the control unit will store encoder impulses and the forces necessary to complete both opening and closing stroke on swing leaf gates.

Before carrying out SELF-LEARNING, set single motor operation, if necessary, selecting "FUNCTIONS" from the menu and set parameter "1M" to "1", otherwise the control unit is set to manage 2 motors as default.

Before carrying out SELF-LEARNING, adjust the mechanical stops (where present) according to needs.

Note: SELF-LEARNING must be repeated whenever stops are adjusted.

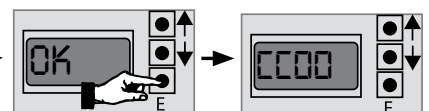
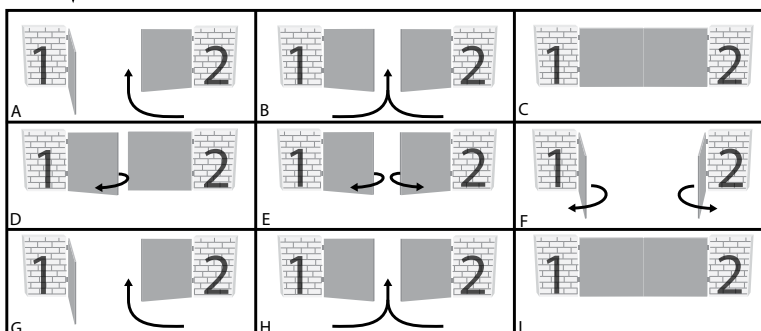
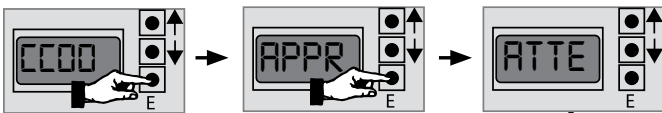
To perform SELF-LEARNING:

1. Unlock motors.
2. Bring gate leaves to open position.
3. Lock motors.
4. Go to "SELF-LEARNING" in the menu and press button "E".
5. The operation includes a complete closing, opening and closing cycle, specifically:
 - a. leaf 2 starts to close, followed by leaf 1 after about 3s
 - b. both leaves re-open: first leaf 1, followed by leaf 2 after about 1s
 - c. leaf 2 starts to close, followed by leaf 1 after about 3s

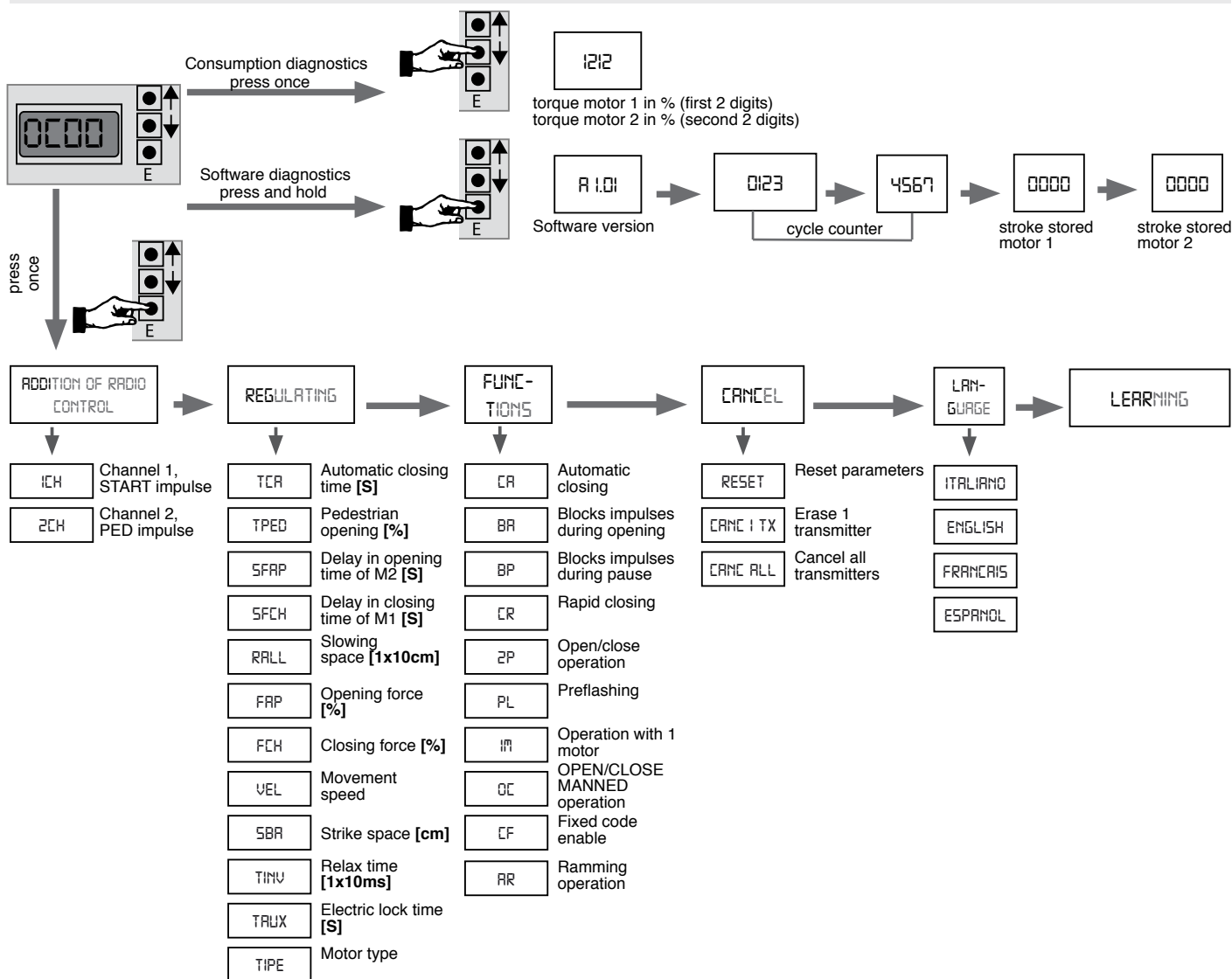
The operation is completed leaving the leaves closed and with display of the message "OK" if it has been successful.

Otherwise, the display will show the message "ERR".

6. To confirm self-learning success, simply press button "E", which will bring you back to the main screen.



MENU DIAGRAM

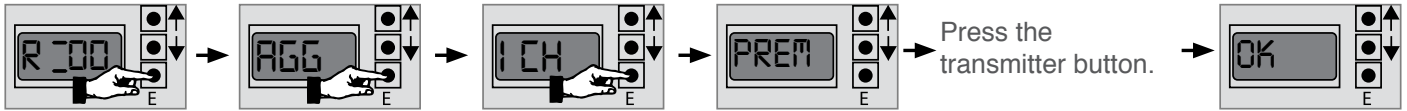


MEMORISING ONE OR MORE RADIO CONTROLS

Stagnoli control units can memorise 76 transmitters per channel in both rollingcode and fixed code. They are set by default to memorise Stagnoli Rollingcode transmitters. To memorise fixed codes, modify "CF" parameters in the "FUNCTIONS" menu.

In addition, Stagnoli control units provide two memory channels:

- 1- the first channel controls automation: open-stop-close (or as programmed)
- 2- the second is used for pedestrian opening



DESCRIPTION OF PARAMETERS

TCR	(automatic closing time)= This is the time from when the gate is fully open to when it is closed, which is automatic if CA=1. If the photocell is engaged, count time is reset.	Default: 10sec Min: 1sec Max: 240sec
TPED	(pedestrian opening)= This is the length of the pedestrian stroke (partial opening of leaf 1) expressed in % in reference to the total stroke.	Default: 50% Min: 30% Max: 99%
SFAP	(delay in opening time)= Delay time in seconds for leaf 2 opening.	Default: 1 sec Min: 0 sec Max: 10 sec
SFCH	(delay in closing time)= Delay time in seconds of leaf 1 closing.	Default: 3 sec Min: 0 sec Max: 10 sec
RALL	(slowing space)= Space where stroke slows down both in opening and in closing, Equals: 1x10cm.	Default: 2 Min: 1 Max: 10
FAP	(anti-crushing force of leaf in opening)= This is the anti-crushing force of the leaf of the gate stated in % compared with the maximum force in the opening phase. **	Default: 50 Min: 20 Max: 99
FCH	(anti-crushing force of leaf in closing)= This is the anti-crushing force of the leaf of the gate stated in % compared with the maximum force in the closing phase. **	Default: 50 Min: 20 Max: 99
VEL	(movement speed)= Movement speed\ (this parameter also automatically modifies slowing speed).	Default: 5 Min: 1 Max: 10
SBR	(strike space)= This is the space, expressed in cm, at the tip of the leaf before the stop in opening and closing in which the control unit interprets obstacles as limit stops.	Default: 4 Min: 1 Max: cm
TREL	(relax time)= When the motor arrives at limit stop, both in opening and in closing, the direction of travel is reversed for the set time, relaxing mechanical components Equals: 1x10ms	Default: 2 Min: 0 Max: 20
TRUX	(electric lock time)= This is the electric lock power supply time.	Default: 1 sec Min: 0 sec Max: 2 sec

** Stagnoli control units automatically memorise the forces necessary (FCH and FAP) for gate leaf movement, adding 10% to the average forces detected during self-learning. Stagnoli delegates the correct setting of anti-crushing forces (FCH and FAP) in accordance with standard EN 12445 to installers.

DESCRIPTION OF FUNCTIONS

CR	(automatic closing)= If enabled, the gate automatically re-closes after TTCA time is completed.	Default: 1 Off: 0 On: 1
BR	(blocks impulses during opening)= The control board ignores the START impulses during the opening phase.	Default: 0 Off: 0 On: 1
BP	(blocks impulses during pause)= The control board ignores the START impulses during the pause phase.	Default: 0 Off: 0 On: 1
CR	(rapid closing)= If photocells are activated in opening or with the gate open, TTCA pause time is reduced to 3 sec.	Default: 0 Off: 0 On: 1
ZP	(open/close operation)= If enabled, at each START impulse, the movement of the gate changes direction. If not enabled, gate movement sequence becomes: OPEN>STOP>CLOSE>STOP and TTCA is not entered	Default: 0 Off: 0 On: 1
PL	(Preflashing)= Flashes 2 sec before movement starts.	Default: 0 Off: 0 On: 1
IM	(1 motor operation)= Managed only by motor 1 if enabled.	Default: 0 Off: 0 On: 1
OC	(open/close function)= If set to 1, the open/close function dedicates START function solely to START input and PEDESTRIAN input takes on the sole function of CLOSE. The PEDESTRIAN and START functions remain the same for transmitters. If set to value 2, pedestrian input function will be dedicated to the "manned" function.	Default: 0 Off: 0 On: 1
CF	(fixed code)= If activated, the control unit is enabled to memorise HT53200 fixed code radio controls.	Default: 0 Off: 0 On: 1
RR	(ramming in opening) = Before starting opening, motor 1 pushes the leaf closed, allowing the electric lock to move away from the stop. At this point, the lock activates and movement continues regularly in opening.	Default: 0 Off: 0 On: 1
FC	(limit stop) = To be used <u>only</u> with <u>sliding</u> gates; if active, the control unit enables limit stop (NC) input in corresponding terminal boards. (manages <u>only 1 gate</u> wired on motor 1)	Default: 0 Off: 0 On: 1

DESCRIPTION OF THE CANCEL MENU

RESET	The menu reset option CANCEL resets all parameters and functions with default settings. Once you have entered into the CANCEL menu, go to RESET by pressing ENTER. The display will begin to flash as it awaits confirmation. Press ENTER again to reset to default parameters. If not, exit. If you press ENTER, the message PRG will appear on the screen to indicate that resetting is in progress.
ERASE 1 TX	To erase a radio control from Stagnoli control units, it is necessary to have the radio control on hand. Enter the ERASE 1 TX option and press the button of the transmitter that must be cancelled. If this button is not found, the control unit will give an ERR message; if it is found, it will be erased and we will see the message OK on the display.
ERASE ALL TX	This option gives the possibility of erasing all radio controls from memory, both on channel 1 and channel 2.

DESCRIPTION OF ACCESSORY DIAGNOSTICS

The control unit can recognise problems or alarms that can occur in the system; therefore it can signal some messages on the main display to allow the problem to be identified:

- 1 RF= activation of the START command on the first radio frequency channel.
- 2 RF= activation of the PEDESTRIAN command on the second radio frequency channel.
- STR= activation of the START command on terminal board input.
- PED= activation of the pedestrian input command.
- STO= activation of the STOP command on the terminal board input.
- PHO= activation of photocells input in closing on the terminal board.
- PHR= activation of photocells input in opening and in closing on the terminal board.
- BRR= activation of the safety rib.
- SUC= activation of limit stop input in opening.
- SUC= activation of limit stop input in closing.
- RM I= activation of the amperometric sensor on the first motor.
- ENC I= operation of the sensor with encoder on the first motor.
- PRG= adjustment or function programming in progress.
- OK= successful operation.
- ERR= failed operation.
- FULL= radio control memory full.
- ATTENDI= pause wait.
- TOUT= wait time up.

FINAL TESTING

Always perform final testing after having completed all programming:

- Unlock motors and make sure that the leaves move freely with a force lower than 390Nm, then re-lock them.
- Check correct operation of protective devices (anti-crushing system, stop button, photocells, etc.).
- Check correct operation of signalling devices.
- Check correct operation of control devices (radio controls, selectors, etc.).
- Adjust motor working forces (FCH and FAP) in accordance with standard EN 12445 to ensure system safety.

IMPORTANT WARNINGS AND FIRST START-UP

IMPORTANT WARNINGS ABOUT INSTALLATION:

- Automatic gate systems must be installed by qualified technical staff in compliance with legal requirements and meeting the requirements of the law and in conformity with Machinery Directive 98/37/EC and standards EN13241-1, EN 12453 and EN 12445.
- Verify the solidity of existing structures (columns, hinges, leaves) in relation to forces developed by the motor.
- Verify the conditions of any cables already present in the system.
- Analyse automation risks and take the necessary safety and signalling precautions accordingly.
- Install controls (for example key selectors) to keep users out of danger zones.
- Once installation has been completed, test safety, signalling and automation unlocking devices a few times (see FINAL TESTING).
- Make sure that users have understood correct automatic, manual and emergency operation of automation.

FIRST START-UP:

- Draft a system technical file containing: Installation drawing, Wiring diagram of connected cables, analyses of risks present and adopted solutions, analyses of residual risks still present, declaration of conformity of all products drafted by the manufacturer and a declaration of conformity relative to installation completed by the installer.
- Affix the CE label or plate containing hazard information and identifying data (serial number, etc.) to the machine.
- Deliver instructions for use, safety warnings, CE declaration of conformity and a copy of the technical file to the end user.

Also make sure to inform the end user:

- regarding the possible presence of unprotected residual risks and foreseeable improper use
- of the importance of disconnecting power supply when performing cleaning in the automation area or when performing small maintenance operations (i.e. repainting)
- on the need to frequently verify that there is no visible damage to automation or, if any is detected, to immediately alert the installer
- **with regards to the danger of letting children play in the immediate vicinity of automation**
- Prepare a system maintenance schedule (at least every 6 months for safety devices), keeping notes regarding operations performed in a log.

DISPOSAL

This product is composed of various components which in turn may contain pollutants. Do not litter! Inquire about recycling or disposal of products according to the laws in force at the local level.

NOTES ON PARAMETERS AND FUNCTIONS:

We recommend using the spaces below to write down the parameters you have customised.

<i>TCA</i>	<i>TPED</i>	<i>SFAP</i>	<i>SFCH</i>	<i>TRAL</i>	<i>FAP</i>
<i>FCH</i>	<i>VEL</i>	<i>FBA</i>	<i>SBA</i>	<i>TINV</i>	<i>TAUX</i>

<i>CA</i>	<i>BA</i>	<i>BP</i>	<i>CR</i>	<i>2P</i>	<i>PL</i>	<i>1M</i>	<i>OC</i>	<i>CF</i>	<i>AR</i>	<i>FC</i>

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