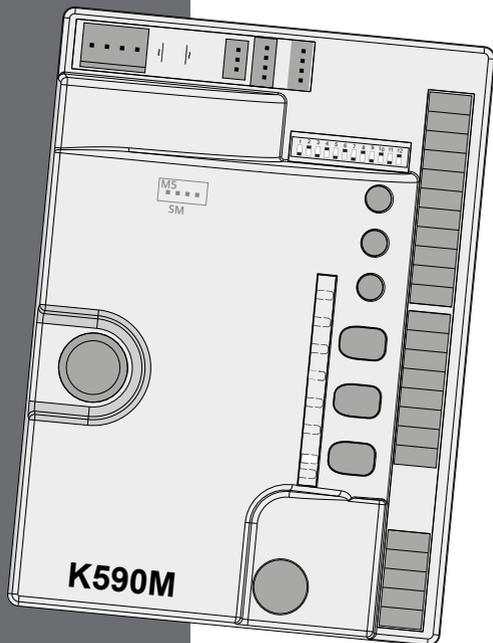


K590M



SCHEMA
CABLAGGIO
K590M

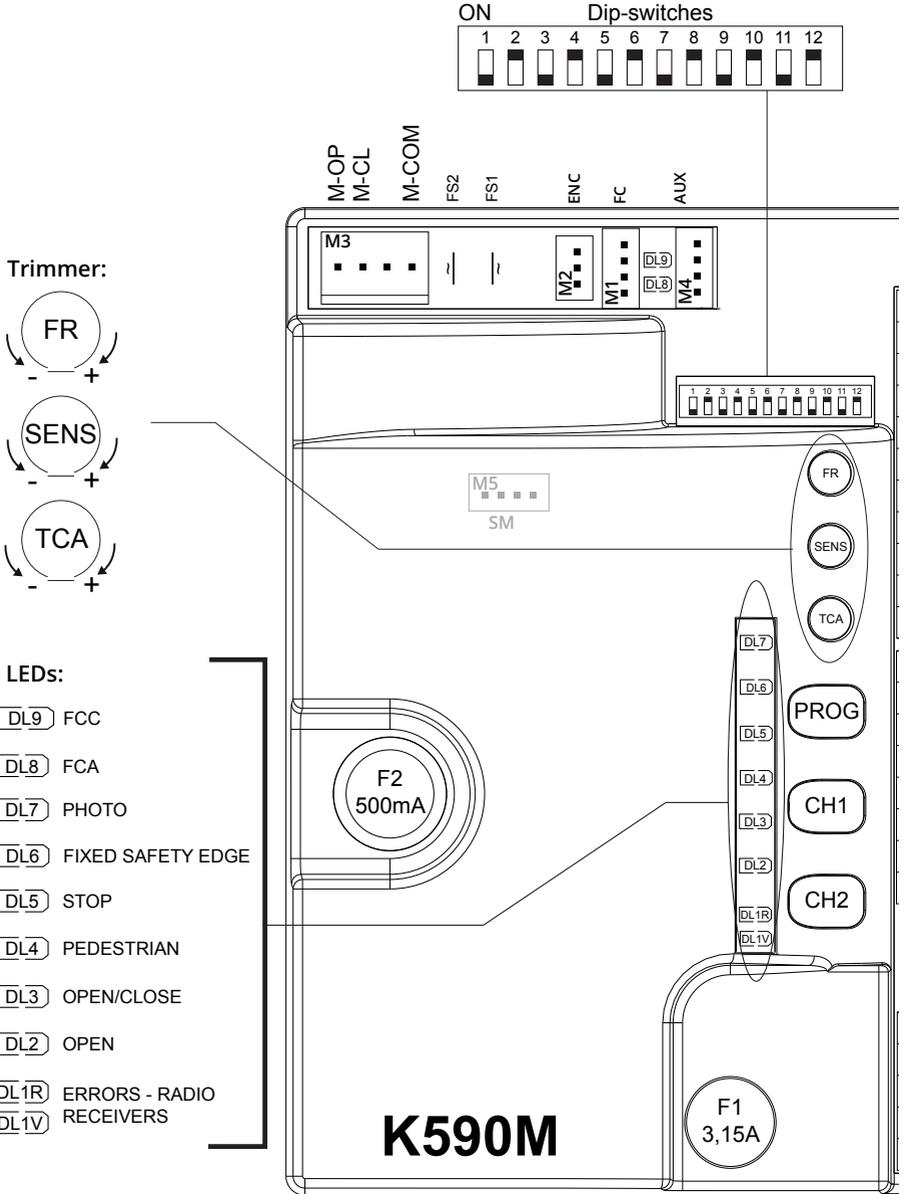
K590M
WIRING
DIAGRAM

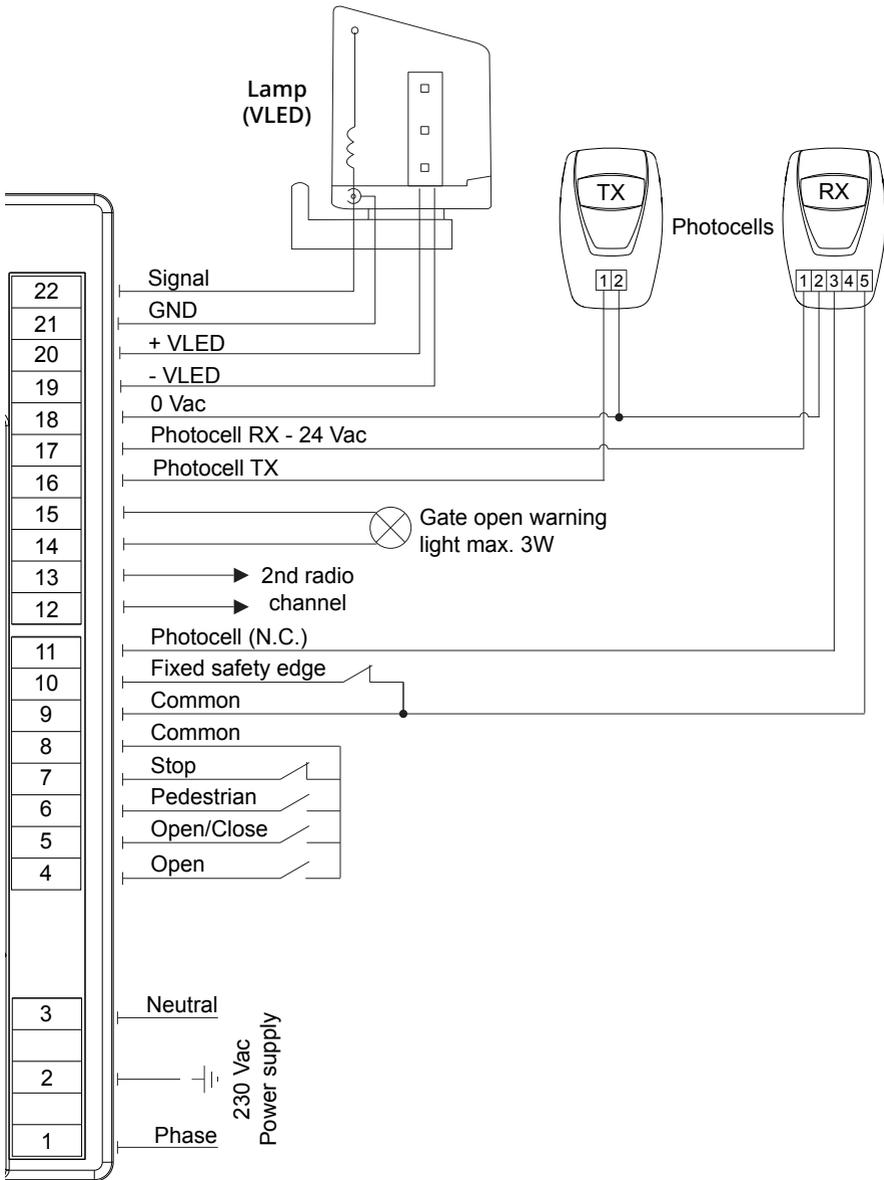
SCHALTPLAN
DER K590M

SCHÉMA
CÂBLAGE
K590M

ESQUEMA DEL
CABLEADO
K590M

ESQUEMA
DE LIGAÇÕES
K590M





WARNINGS

This manual has been especially written for use by qualified fitters. No information given in this manual can be considered as being of interest to end users. This manual is enclosed with control unit K590M and may therefore not be used for different products!

Important information:

Disconnect the panel from the power supply before opening it.

The K590M control unit has been designed to control an electromechanical gear motor for automating gates and doors of all kinds.

Any other use is considered improper and is consequently forbidden by current laws.

Please note that the automation system you are going to install is classified as "machine construction" and therefore is included in the application of European directive 2006/42/EC (Machinery Directive).

This directive includes the following prescriptions:

- Only trained and qualified personnel should install the equipment;
- the installer must first make a "risk analysis" of the machine;
- the equipment must be installed in a correct and workmanlike manner in compliance with all the standards concerned;
- after installation, the machine owner must be given the "declaration of conformity".

This product may only be installed and serviced by qualified personnel in compliance with current, laws, regulations and directives.

When designing its products, TAU observes all applicable standards (please see the attached declaration of conformity) but it is of paramount importance that installers strictly observe the same standards when installing the system.

Unqualified personnel or those who are unaware of the standards applicable to the "automatic gates and doors" category may not install systems under any circumstances.

Whoever ignores such standards shall be held responsible for any damage caused by the system!

Do not install the unit before you have read all the instructions.

INSTALLATION

Before proceeding, make sure that the gate opens and closes easily without mechanical impediments of any kind. Also check that the gear motor assembly has been installed according to the instructions and also that the relative rack has been installed on the gate so as not to create mechanical obstacles during opening and closing.

THE EQUIPMENT MUST BE INSTALLED "EXPERTLY" BY QUALIFIED PERSONNEL AS REQUIRED BY LAW.

Note: it is compulsory to earth the system and to observe the safety regulations that are in force in each country.

IF THESE ABOVE INSTRUCTIONS ARE NOT FOLLOWED IT COULD PREJUDICE THE PROPER WORKING ORDER OF THE EQUIPMENT AND CREATE HAZARDOUS SITUATIONS FOR PEOPLE. FOR THIS REASON THE "MANUFACTURER" DECLINES ALL RESPONSIBILITY FOR ANY MALFUNCTIONING AND DAMAGES THUS RESULTING.

1. CONTROL PANEL FOR ONE 230V AC MOTOR

- MICROPROCESSOR-CONTROLLED LOGIC
- INPUT STATUS LED'S
- LINE INPUT FUSE
- BUILT-IN FLASHING LIGHT CIRCUIT
- 433.92 MHz 2 CHANNEL BUILT-IN RADIO RECEIVER (CH)
- OPERATING TIME FIXED AT 120 sec.
- AUTOMATIC DETECTION OF THE POWER SUPPLY FREQUENCY (50 or 60 Hz)
- MOTOR TORQUE CONTROL AND OBSTACLE DETECTION BY MEANS OF ENCODER
- ADJUSTABLE DECELERATION
- "SLOW-DOWN" FUNCTION IN OPENING AND IN CLOSING PHASE
- DIAGNOSTICS OF MALFUNCTIONS SIGNALLED BY LED

- COMPATIBILITY WITH OUR APPS: TAUOPEN AND TAUAPP

ATTENTION:

- do not use single cables (with one single wire), ex. telephone cables, in order to avoid breakdowns of the line and false contacts;
- do not re-use old pre-existing cables.
- In case of long sections of cables (> 20 m) for N.O./N.C. controls (e.g. OPEN / CLOSE, STOP, PEDESTRIAN, etc.), in order to avoid gate malfunctions, it will be necessary to uncouple the various controls using RELAYS or using our 750T-RELE device.

2. TESTING

When you have completed the connection:

- All the green LEDs (from 3 to 6) must be on (each of them corresponds to a Normally Closed input). They go off only when the controls to which they are associated are operated.
- The red opening command LEDs must all be unlit (each corresponding to a Normally Open input) and illuminate only when the commands they are associated with are given; The green led DL1V will flash every 4 seconds.

3. TECHNICAL CHARACTERISTICS

Power input to board	230V AC - 50 Hz
Nominal power	400 W
Fast acting fuse for protection of input power supply 230V AC (F1 - 5x20)	F 3,15 A
Input voltage of motor circuits	230V AC
Input voltage of auxiliary circuits	24V AC
Fast acting fuse for protection of auxiliary circuits 24V AC (F2 - 5x20)	F 500 mA
Working temperature	-20°C ÷ +55°C
Box degree of protection	IP 44

4. TERMINAL BOARD CONNECTIONS

Terminals	Function	Description
1 - 2 - 3	POWER SUPPLY	POWER input 230V AC - 50Hz (115V AC - 60 Hz). 1=PHASE 2= EARTH 3= NEUTRAL;
4 - 8	OPEN	OPEN pushbutton input (Normally Open contact); (8=COMMON, 4=OPEN)
5 - 8	OPEN/CLOSE	OPEN/CLOSE pushbutton input (Normally Open contact); (8=COMMON, 5=OPEN/CLOSE)
6 - 8	PEDESTRIAN	PEDESTRIAN pushbutton input (Normally Open contact); NOTE by factory settings the automation will open Equal to one third of the total strike. (8= COMMON, 6= PEDESTRIAN)
7 - 8	STOP	STOP pushbutton input (Normally Closed contact);(8=COMMON, 7=STOP)
9 - 10	SENSITIVE EDGE	SAFETY EDGE input (Sensitive edge with resistive or N.C. contact). During the opening phase, it temporarily stops the gate and makes it close again for about 20 cm, thus allowing to free the potential obstacle. During the closing phase, it stops the gate and makes it totally reopen. In this case, if programmed, the automatic closing will be inhibited. Jumper terminals if not used. (9 = COMMON - 10 = SENSITIVE EDGE) NOTE: if a resistive sensitive edge 8K2 Ohm is connected, set dip-switch no. 12 to ON; If a fixed safety edge with NC contact is connected, set dip-switch no. 12 to OFF;

9 - 11	PHOTOCELLS	Input for PHOTOCELLS OR SAFETY DEVICES active during closure (Normally Closed contact); They stop the gate during closing and totally reopen it; they temporarily stop the gate during opening in order to allow the obstacle to be removed (if dip switch n° 3 set to ON). If there is more than one safety device, connect all the NC contacts IN SERIES . (9=COMMON, 11= PHOTOCELLS) Note: the photocell transmitter must always be supplied by terminals no. 13 - 15, since the safety system test (photo-test) is carried out on it. To override the testing of the safety system, or when the photocells are not used, set dip-switch no. 6 to OFF. If the photo-test is not successful, the control unit will not operate.
12 - 13	2 nd RADIO CHANNEL	2nd RADIO CHANNEL output to be used for opening/closing another gate, for controlling garden lights or for the "ZONE LIGHTING" function; (to be programmed via TauApp); Warning: to connect other devices to the 2nd Radio Channel (area lighting, pumps, etc.), use an additional auxiliary relay.
14 - 15	GATE OPEN LED	GATE OPEN LED output 24V AC - max. 3W; during opening of the gate the warning light flashes slowly, when the gate is open it remains steadily illuminated and during closure it flashes twice as fast. 14= 0Vac, 15= 24Vac;
16 - 18	TX PHOTOCELL	24V AC 10 W POWER output for PHOTOCCELL TX (only the one that performs the Phototest) max. no. 1 photocell transmitter. 18= 0Vac, 16= 24Vac;
17 - 18	RX PHOTOCELLS	24V AC 10W output to POWER THE RX AND/OR OTHER TX OF OTHER INSTALLED PHOTOCCELLSPHOTOCELLS AND/OR EXTERNAL RECEIVERS, etc.; connect a max. of 3 pair of photocells. 18= 0Vac, 17= 24Vac;
19 - 20	FLASHING LIGHT	LEDS FLASHING LIGHT output 12V dc, 200mA max. (NEGATIVE=19 - POSITIVE=20) The signal is already modulated for direct use. Flashing frequency is double during closing;
21 - 22	AERIAL	433,92 MHz built-in RX antenna input; 21= EARTH, 22= SIGNAL;
M1	LIMIT SWITCH	Quick coupling for LIMIT SWITCH connection (Normally Closed contacts). Orange= Closure Limit Switch (CLS), red= Opening Limit Switch (OLS), grey= Common (COM);
M2	ENCODER	Quick coupling for ENCODER connection. Blue= 0V DC (GND), brown= 5V DC (+5V), white= ENCODER SIGNAL (ENC);
FS1 - FS2	CAPACITOR	Faston for motor CAPACITOR connection;
M3	230V AC MOTOR	Quick coupling for 230 Vac single-phase MOTOR connection common= BLUE (M-COM); closure= BROWN (M-CL); opening= BLACK (M-OP).
M4	AUX	Quick coupling for the connection of the T-WIFI and T-CONNECT devices
M5	MEMORY CARD	Quick plug-in for MEMORY CARD connection for transmitters codes.

5. LOGIC ADJUSTMENTS

TRIMMER

FR. Motor torque adjustment. The trimmer is set to provide sufficient thrust to work the gate without exceeding the limits established by current standards (EN 12453). **Turning the trimmer clockwise (+) increases the motor torque, turning it anticlockwise (-) reduces it.**

SENS **Adjustable only with ENCODER enabled (DIP 11 ON).**
Obstacle detection additional adjustment;
Note: by rotating the TRIMMER FR. clockwise the sensitivity to obstacles of the operator decreases and therefore the thrust force increases; vice-versa, by rotating it anticlockwise, the sensitivity to obstacles of the operator increases and therefore the thrust force decreases.



WARNING: with the trimmer at maximum, the obstacle detection is disabled!!

T.C.A. Automatic closing time adjustment from 5 to 120 seconds.

Dip switch

1	AUTOMATIC CLOSING	On	after opening, the gate automatically closes when the delay set on the T.C.A. trimmer expires.
		Off	automatic closing disabled.
2	2 / 4 STROKE	On	with automatic closing enabled, a sequence of open/close commands causes the gate to OPENCLOSE-OPEN-CLOSE etc (see also dip switch 4).
		Off	in the same conditions, the same command sequence causes the gate to OPEN-STOP-CLOSESTOP-OPEN-STOP (step-by-step).
3	OPENING PHOTOCELLS OPERATION	On	during opening, cutting photocell stops the gate until the obstacle is removed. When the obstacle is removed the gate resumes opening;
		Off	during opening, the photocell does not cut in.
4	NO REVERSE	On	NO-REVERSE function activated; the gate ignores the closure commands during opening; reversal of movement occurs only during closure;
		Off	the open-close pushbutton reverses the direction of movement of the gate even while it is opening.
5	PRE-FLASHING	On	pre-flashing function enabled.
		Off	pre-flashing function disabled.
6	PHOTOCELL TEST	On	"photocell test" function is enabled;
		Off	"photocell test" function is disabled. Note: to be used when the photocells are not used.
7	PEDESTRIAN ENTRY FUNCTION	On	CLOSE button input (Normally Open contact)
		Off	PEDESTRIAN button input (Normally Open contact);
8	DEAD MAN'S SWITCH	On	Dead man's switch active for the OPEN and CLOSE keys (term. 4-8 and 6-8 with dip switch 7 in ON);
		Off	Dead man's switch not active
9	GATE TYPE	On	settings for heavy gates or particularly difficult to open and close;
		Off	settings for standard gates.
10	OPENING DIRECTION SETUP	On	left-hand leaf opening function;
		Off	right-hand leaf opening function;
11	ENCODER	On	ENCODER enabled: encoder obstacle detection function activated (use the trimmers FR and SENS to adjust the sensitivity to obstacles);
		Off	ENCODER disabled - obstacle detection disabled;
 NOTE: moving DIP 11 from ON to OFF (or vice versa), learning process has to be initialized again.			
12	SENSITIVE EDGE	On	RESISTIVE SENSITIVE EDGE 8K2 Ohm (terminal no. 11);
		Off	FIXED EDGE (NC contact – terminal no. 11).

OBSTACLE DETECTION

If the obstacle detection function (which can be set through trimmers FR and SENS) gets activated during an opening manoeuvre, the gate closes approx. 20 cm., if it is activated during a closing manoeuvre, the gate opens fully.



WARNING: the control panel logics may interpret mechanical friction as an obstacle.

6. STROKE SETTINGS PROCEDURE WITH OR WITHOUT SLOWDOWN (SETUP)



WARNING: The learning process has to be done even if ENCODER function is disabled (DIP 11 OFF).

It is recommended to start the learning process already on the FCC closing limit switch. Press the PROG key and keep it pressed until the DL1R and DL1V leds start flashing quickly. After releasing it, the procedure carries out the following steps:

1_ If the automation is already on the FCC limit switch, it goes directly to point 2.

Otherwise, if the automation is not on the FCC, it starts to look for the closing limit switch;



If the automation opens instead of closing, stop the learning process (by cutting the photocells or opening the STOP contact), invert DIP 10 and continue the learning process by pressing PROG briefly.

2_ The automation starts to measure the stroke from FCC to the opening limit switch FCA;



WARNING: - SETTING SLOWDOWN: (skip this procedure to disable slowdown) During the opening cycle press PROG or close the OPEN/CLOSE contact at the desired position where to start the slowdown.

3_ Once the opening is done, the automation starts to measure the stroke from the opening limit switch FCA to the closing limit switch FCA;



SETTING SLOWDOWN: (skip this procedure to disable slowdown) During the opening cycle press PROG or close the OPEN/CLOSE contact at the desired position where to start the slowdown.

4_ The green led DL1V will flash every 4 sec. Learning process procedure is terminated.



WARNING: if during the learning process either the STOP, or PHOTOCELLS or SAFETY EDGE contact will be opened the automation stops. By pressing PROG or closing the OPEN/CLOSE contact the learning process starts again from point nr. 1

7. 433.92 MHz BUILT-IN RADIO RECEIVER

The radio receiver can learn up to a maximum of 30 rolling codes (BUG2R, BUG4R, K-SLIM-RP, T-4RP) which can be set on both the two channels as desired.

The first channel directly commands the control board for opening the automatic device; the second channel commands a relay for a N.O. dry contact (terminals 12 and 13, max. 24 Vac, 1 A).

LEARNING PROCEDURE FOR TRANSMITTERS

CH1 = OPEN/CLOSE

CH2 = 2nd channel

CH3 = 3rd channel (PEDESTRIAN)

- 1_ press button CH1 briefly to associate a transmitter with the OPEN/CLOSE function;
- 2_ LED (green) DL1V turns on to indicate that the code learning mode has been activated (if no code is entered within 10 seconds, the board exits the transmitters learning mode);
- 3_ press the desired channel of the transmitter to be memorized;
- 4_ the LED (green) DL1V turns off to indicate saving is complete and then turn on immediately waiting for another transmitter to be memorized (if this is not the case, try to re-transmit or wait 5 seconds and restart from point 1);
- 5_ to memorise other transmitters, press the desired channel of the new transmitter within 5 sec otherwise the learning procedure will be automatically closed and LED (green) DL1V turns off. To repeat the procedure to learn new remote controls start again from point 1 (up to a maximum of 30 transmitters);
- 6_ to memorise codes on the 2nd channel, repeat the procedure from point 1 using button CH2 instead of CH1; (in this case the red/ green leds DL1R and DL1V will light up);
- 7_ to program transmitters into the third channel, repeat procedure from point 1 using CH1 and CH2 buttons at the same time (DL8 will turn on red);



If the maximum number of radio controls is reached (30), the DL1V (green) led for CH1 and the DL1R (red) led for CH2 flash for about 3 seconds without however, carrying out the memorization.

REMOTE PROGRAMMING BY MEANS OF T-4RP and K-SLIM-RP (V 4.X)

With the new version of software V 4.X it is possible to carry out a remote self-learning of transmitters T-4RP and K-SLIM-RP (new version V 4.X), without pressing the receiver's programming buttons.

It will be sufficient to have an already programmed transmitter on the receiver in order to start the procedure of remote programming of the new transmitters. Follow the procedure written on the instructions of the transmitters T-4RP and K-SLIM-RP (V 4.X).

CANCELLING CODES FROM RADIO CONTROL DEVICES

- 1_ keep button CH1 pressed for 3 seconds in order to cancel all the associated transmitters;
- 2_ The green LED DL1V flashes slowly to indicate that the cancellation mode has been activated;
- 3_ press button CH1 again for 3 seconds;
- 4_ The green LED DL1V turns off for approx. 3 seconds and then remains steady to indicate that the codes has been cancelled;
- 5_ repeat the procedure from point 1 using button CH2 to cancel all the associated transmitters;
- 6_ repeat procedure from point 1 using CH1 and CH2 buttons at the same time to erase all transmitters programmed into the third channel;
- 7_ to exit the cancelling mode without deleting any code, press button CH1 or CH2 briefly.

MEMORY CAPACITY

The code memory capacity* can be expanded from 30 to 126, 254 or 1022 codes (transmitters) by replacing the memory cards as follows (plug them onto M5 connector, see wiring diagram):

126	codes	Art.	250SM126
254	codes	Art.	250SM254
1022	codes	Art.	250SM1022

* Control units are supplied with a standard built-in 30-code memory. The memory card for enhancing the code memory capacity must be ordered separately.

To allow the previously stored codes (max. 30) to be moved to the control unit, it is required to install a memory card, making sure that the control unit is at that time off and that the memory card is brand new and therefore completely empty.

When the control unit is restarted, the codes will automatically move to the memory card.

Moving the codes from the control unit to the memory card does not work if on the memory card used, radio control codes have already been stored and the memory card has been subsequently erased.

To insert new radio controls, the operation described above shall be repeated.



WARNING: Control unit must be turned OFF to insert / remove a memory card.

RADIO MEMORY RESET:

- press without releasing the keys CH1 and PROG until the DL1R (red) led stays on and the DL1V (green) led starts flashing quickly. At this point release the keys and press them again till the LEDs go off confirming the operation is complete.

HARD RESET (factory setting):

- press without releasing keys CH2 and PROG till LED DL1R start flashing quickly with a red light. At this point release the keys and press them again till the LED go off (reset in progress), confirming the operation is complete. When the unit starts again saving will be required.



In case of Hard Reset the memory of the radio receiver will not be erased: all existing transmitters remain programmed.

8. ADVANCED FUNCTIONS

Clock function: a timer can be connected to the open-close pushbutton in order to keep the gate open at certain times during the day, after which it reverts to automatic closing.

Note: the gate remains open as long as the Op/Cl input continues to be activated.

9. DIAGNOSTICS LED

DL1V (green) + DL1R (red)	Led indicating the programming of REMOTE CONTROLS, ERRORS and the status of the control unit
DL2 - red	OPEN button LED signal
DL3 - red	OPEN/CLOSE button LED signal
DL4 - red	PEDESTRIAN button LED signal
DL5 - green	STOP button LED signal
DL6 - green	SENSITIVE EDGE LED signal
DL7 - green	PHOTOCELL LED signal
DL8 - green	OPEN LIMIT SWITCH LED signal (FCA)
DL9 - green	CLOSE LIMIT SWITCH LED signal (FCC)

LED: DL1V ● (green) + DL1R ● (red)

Leds DL1R and DL1V displays any mistakes with a series of pre-set flashes:

Key: ● led always on; ● led flashing; ○ led off;

○ / ● Alternate flashing (Red/Green):	Saving to be performed;
○ / ● Fast flashing of both (Red/Green):	Saving in progress;
○ / ● 1 flash every 4 seconds	Status of the unknown position - Next maneuver REALIGNMENT
○ / ● No. 8 flashes interspersed with a pause of 1 sec. (Red/Green):	Eeprom data error;
<i>Perform procedure RADIO MEMORY RESET;</i>	

LED: DL1V ● (green) + DL1R ○ (red led always off)

● 1 flash every 4 seconds (green):	Normal operation;
● 1 flash every 1 seconds (continuous flashing)	Radio memory of the card is read by TAUSOFT
● Always on (green):	Channel CH1 waiting to be saved;
● Fast flashing (green):	CH1 channel memory full;
● Flashing (green):	CH1 channel waiting to be cancelled;
○ Led off:	Cancelling of channel CH1 in progress;

LED: DL1V ○ (green led always off) + DL1R ● (red)

○ Led off:	Normal operation;
● 1 flash every 1 seconds (red):	Phototest error <i>Disable phototest (dip-switch 6 OFF), check the operation of the photocells and their connection;</i>
● No. 2 flashes interspersed with a pause of 1 sec.(red):	obstacle motor ; <i>Make sure there are no obstacles across the path of the gate and that it slides smoothly;</i>
● No. 3 flashes interspersed with a pause of 1 sec.(red):	Faulty encoder or disconnected from M1 <i>Check wiring, check encoder by TEST-ENCODER (optional);</i>
● No. 6 flashes interspersed with a pause of 1 sec. (red)	Reached maximum number of failed automatic closing attempts Obstacle detected (only with dip 11 ON);

Make sure there are no obstacles across the path of the gate and that it slides smoothly;

⦿ No. 7 flashes interspersed with a pause of 1 sec. (red):

Sensitive edge safety intervention

A command pulse is required to carry out the closure;

⦿ No. 8 flashes interspersed with a pause of 1 sec.(red):

Eeprom external memory fault;

Replace the external memory module;

10. SET-UP FOR OPERATION WITH TAU APPS

In order to use the TauApp and TauOpen apps, it will be necessary to connect to input M4 of the control unit using the supplied cable, the respective T-WIFI and T-CONNECT devices. To activate the operation of the apps see the respective instructions.

11. RESTORING AUTOMATIC OPERATION

Should the gate needs to be operated manually, use the release system. After a manual operation: If the reset occurs after a black-out or after a manual intervention, before powering the control board again it is necessary to place the gate in the totally open or completely closed position.

12. MALFUNCTIONS: POSSIBLE CAUSES AND SOLUTION

The automation does not start

- a- Check there is 230Vac power supply with the multimeter;
- b- Check that the N.C. contacts on the card really are normally closed (5 green LEDs illuminated) and that the red opening command LEDs are turned off;
- c- make sure the green DL1V led flashes every 4 seconds;
- d- Set dip 6 (phototest) to OFF;
- e- Check that the fuses are intact with the multimeter.

The radio control has very little range

- a- Check that the ground and the aerial signal connections have not been inverted;
- b- Do not make any joints on the antenna cable;
- c- Do not install the aerial in a low position or behind walls or pillars;
- d- Check the state of the radio control batteries.

The gate opens the wrong way

- a_ Invert the position of dip-switch No. 10 after having turned off the power to the control unit.

13. GUARANTEE: GENERAL CONDITIONS

TAU guarantees this product for a period of 24 months from the date of purchase (as proved by the sales document, receipt or invoice).

This guarantee covers the repair or replacement at TAU's expense (ex-works TAU: packing and transport at the customer's expense) of parts that TAU recognises as being faulty as regards workmanship or materials.

For visits to the customer's facilities, also during the guarantee period, a "Call-out fee" will be charged for travelling expenses and labour costs.

The guarantee does not cover the following cases:

- If the fault was caused by an installation that was not performed according to the instructions provided by the company inside the product pack.

- If original TAU spare parts were not used to install the product.
- If the damage was caused by an Act of God, tampering, overvoltage, incorrect power supply, improper repairs, incorrect installation, or other reasons that do not depend on TAU.
- If a specialised maintenance man does not carry out routine maintenance operations according to the instructions provided by the company inside the product pack.
- Wear of components.

The repair or replacement of pieces under guarantee does not extend the guarantee period. In case of industrial, professional or similar use, this warranty is valid for 12 months.

MANUFACTURER'S DECLARATION OF INCORPORATION (in accordance with European Directive 2006/42/EC App. II.B)

Manufacturer:
Address:

TAU S.r.l.
Via E. Fermi, 43 - 36066 Sandrigo (Vi) - ITALY

Declares under its sole responsibility, that the product:
designed for automatic movement of:
for use in a: *Residential / Communities*

*Electronic control unit
Sliding Gates
complete with: Radioreceiver*

Model: *K590M*
Serial number:
Commercial name:

Type: *K590M*
see silver label
*Control panel for T-ONE5, T-ONE8, T-ONEXL and
MASTER20QR/QM gearmotor*

Has been produced for incorporation on an access point (*sliding gate*) or for assembly with other devices used to move such an access point, to constitute a machine in accordance with the Machinery Directive 2006/42/EC.

Also declares that this product complies with the essential safety requirements of the following EEC directives:

- **2014/35/EU Low Voltage Directive**
- **2014/30/EU Electromagnetic Compatibility Directive**

and, where required, with the Directive:

- **2014/53/EU Radio equipment and telecommunications terminal equipment**

Also declares that ***it is not permitted to start up the machine*** until the machine in which it is incorporated or of which it will be a component has been identified with the relative declaration of conformity with the provisions of Directive 2006/42/EC.

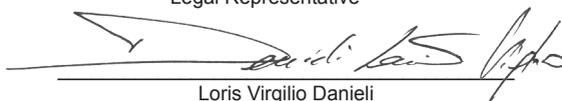
The following standards and technical specifications are applied:

EN 61000-6-2; EN 61000-6-3; EN 60335-1; ETSI EN 301 489-1 V1.9.2; ETSI EN 301 489-3 V1.6.1;
EN 300 220-2 V3.1.1; EN 12453:2000; EN 12445:2000; EN 60335-2-103.

The manufacturer undertakes to provide, on sufficiently motivated request by national authorities, all information pertinent to the quasi-machinery.

Sandrigo, 31/10/2017

Legal Representative



Loris Virgilio Danieli

Name and address of person authorised to draw up all pertinent technical documentation:

Loris Virgilio Danieli - via E. Fermi, 43 - 36066 Sandrigo (Vi) Italy



Via Enrico Fermi, 43 - 36066 Sandrigo (VI) - Italy
Tel +39 0444 750190 - Fax +39 0444 750376
info@tauitalia.com - www.tauitalia.com



Foglietto illustrativo

CARTA - Raccolta differenziata. Segui le indicazioni del tuo comune. (N.B.: togliere i punti metallici)



Instruction leaflet

PAPER - Waste separation. Follow the instructions of your city hall. (Note: remove the staples)