VIVO-T101/-M101PT

Quick installation and programming guide

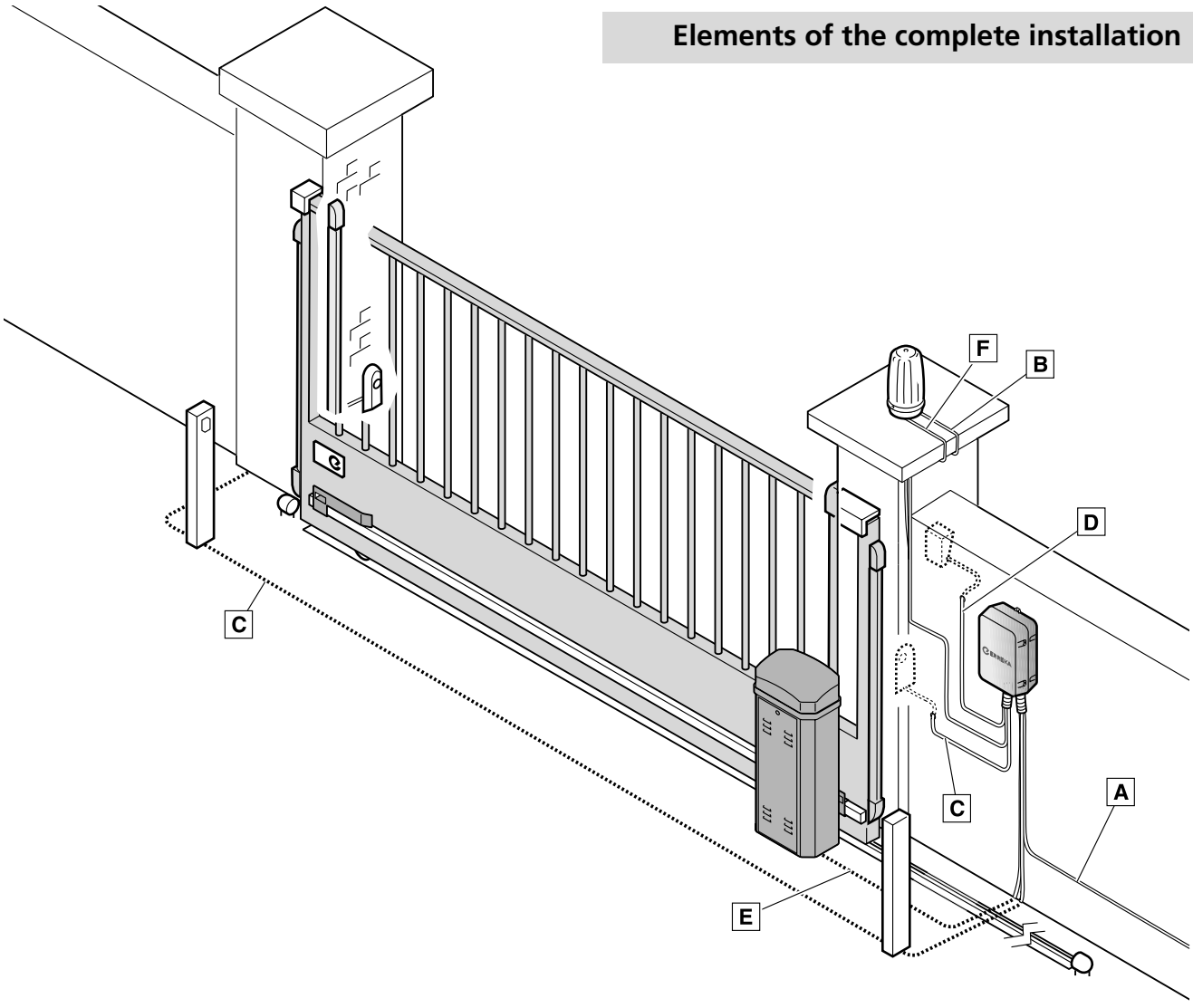
English

IMPORTANT NOTE

This quick guide summarises the full installation manual. The full manual contains safety warnings and other explanations that must be taken into account. You can download the latest version of this guide and the installation manual in the "Downloads" section of the Erreka website:
http://www.erreka.com.

The options and functions described in this guide are applicable from the *firmware* version indicated on the circuit. As part of a process of continuous improvement, the *firmware* is subject to the incorporation of new functionalities or their extension, and consequently to the generation of new versions not necessarily compatible with the previous ones. Therefore, if your *firmware* version is lower than the one indicated in this guide, some options and functions may not be available or may be different.

Elements of the complete installation



E345A

ELECTRICAL CABLING:

Element	Nº wires x section	Maximum length
A: Main power supply	VIVO-T101: 5x1,5mm^2, VIVO-M101PT: 3x1,5mm^2	30m
B: Flashing light	2x0,5mm^2	30m
C: Photocells (Tx / Rx)	2x0,5mm^2 / 4x0,5mm^2	30m
D: Key switch	2x0,5mm^2	25m
E: Operator (motor + limit switch + microswitch STP)	4x1,5mm^2 + 3x0,50mm^2 + 2x0,50mm^2	20m
F: Antenna	Coaxial cable 50Ω (RG-58/U)	5m

firmware V3.00_IND or later

MSA-102/02 – 2022/07/20

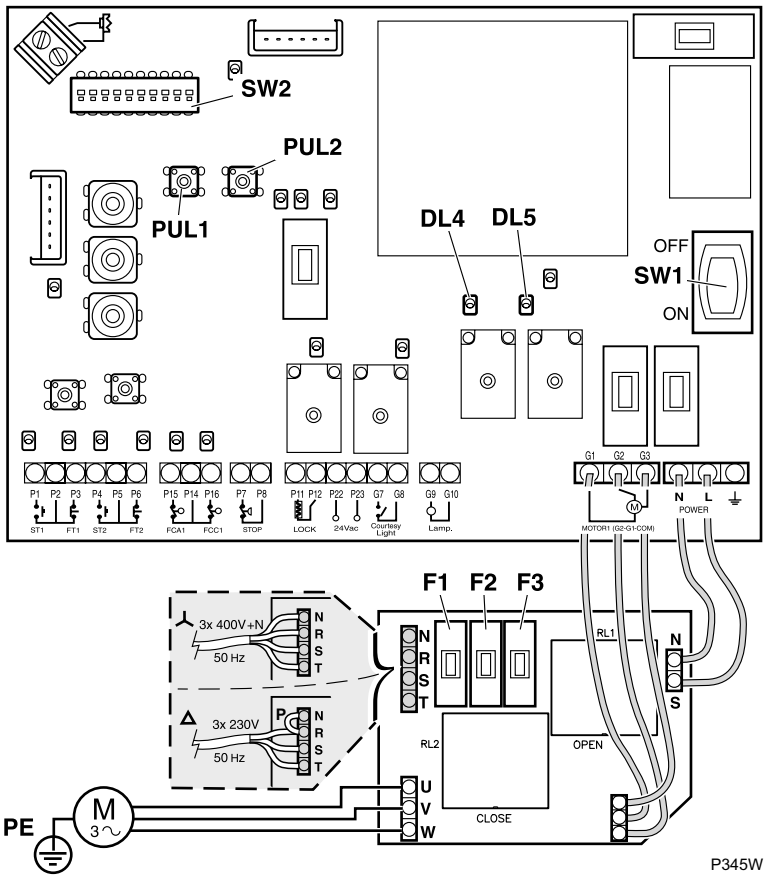
Connections VIVO-T101 power and three-phase operator

☞ **3x400V Installations**
(400V between phases): connect the three phases to cable connectors R, S and T, and the neutral to cable connector N.

❗ **In 3x400V installations, the neutral must be connected to the N cable connector in order to prevent any damage to the control panel.**

☞ **3x230V Installations**
(230V between phases): connect the three phases to cable connectors R, S and T, and bridge cable connectors N and R.

⚠ **There is no "soft stop" function.**



DL4	open indicator
DL5	close indicator
PUL1	close mini-pushbutton
PUL2	open mini-pushbutton
SW1	power switch
SW2	programming DIPs
M	three-phase operator motor
U, V, W	operator motor connections
PE	earth connection
F1	R line fuse (6.3 A)
F2	S line fuse (6.3 A)
F3	T line fuse (6.3 A)

Connections between boards

G1	Open
G2	Close
G3	common (COM)
N-N	single-phase board power supply neutral
S-L	single-phase board power supply line
P	N and R cable connector bridge (power 3x230V)

☞ When PUL1 (close) is pressed, DL5 lights up and the CLOSE relay (RL2) is activated.

☞ When PUL2 (open) is pressed, DL4 lights up and the OPEN relay (RL1) is activated.

Checking turning direction

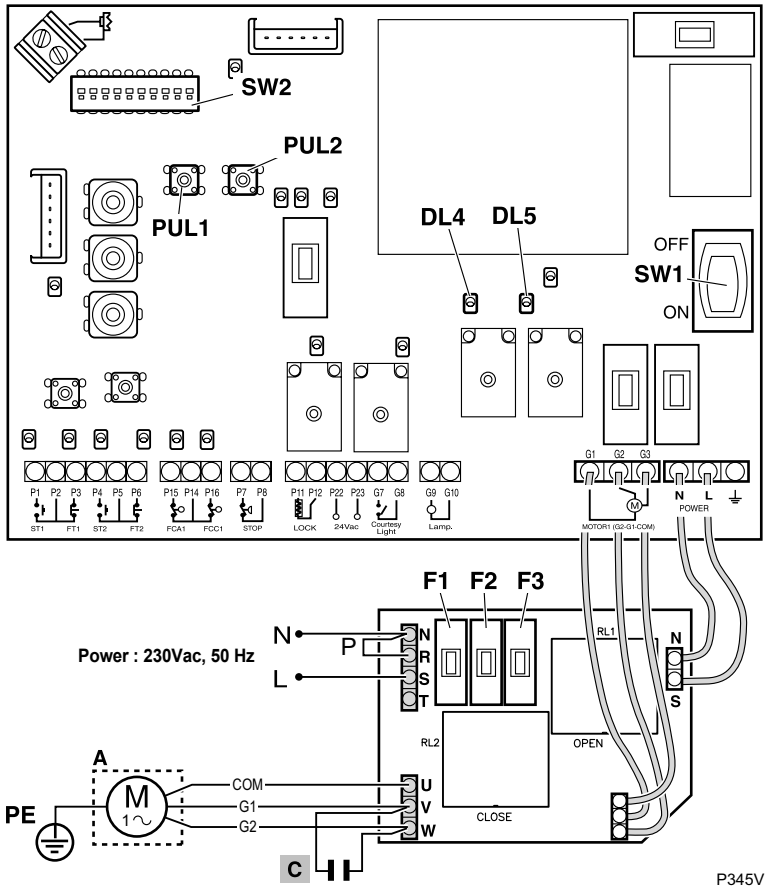
Press PUL1 (close) and PUL2 (open) to check the turning direction of the operator. If it is not correct, interchange connections V and W.

Connections VIVO-M101PT power and single-phase operator

The VIVO-M101PT control panel allows use of single-phase operators with power above that allowed with the VIVO-M101 panel.

☞ The VIVO-M101PT control panel is a variant of the VIVO-T101 control panel that can be used with single-phase motors, connecting it as shown in the figure.

⚠ **There is no "soft stop" function.**



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F1	R line fuse (6.3 A)
F2	S line fuse (6.3 A)
F3	T line fuse (6.3 A)

Connections between boards

G1	Open
G2	Close
G3	common (COM)
N-N	single-phase board power supply neutral
S-L	single-phase board power supply line
P	N and R cable connector bridge (power 230V)

☞ When PUL1 (close) is pressed, DL5 lights up and the CLOSE relay (RL2) is activated.

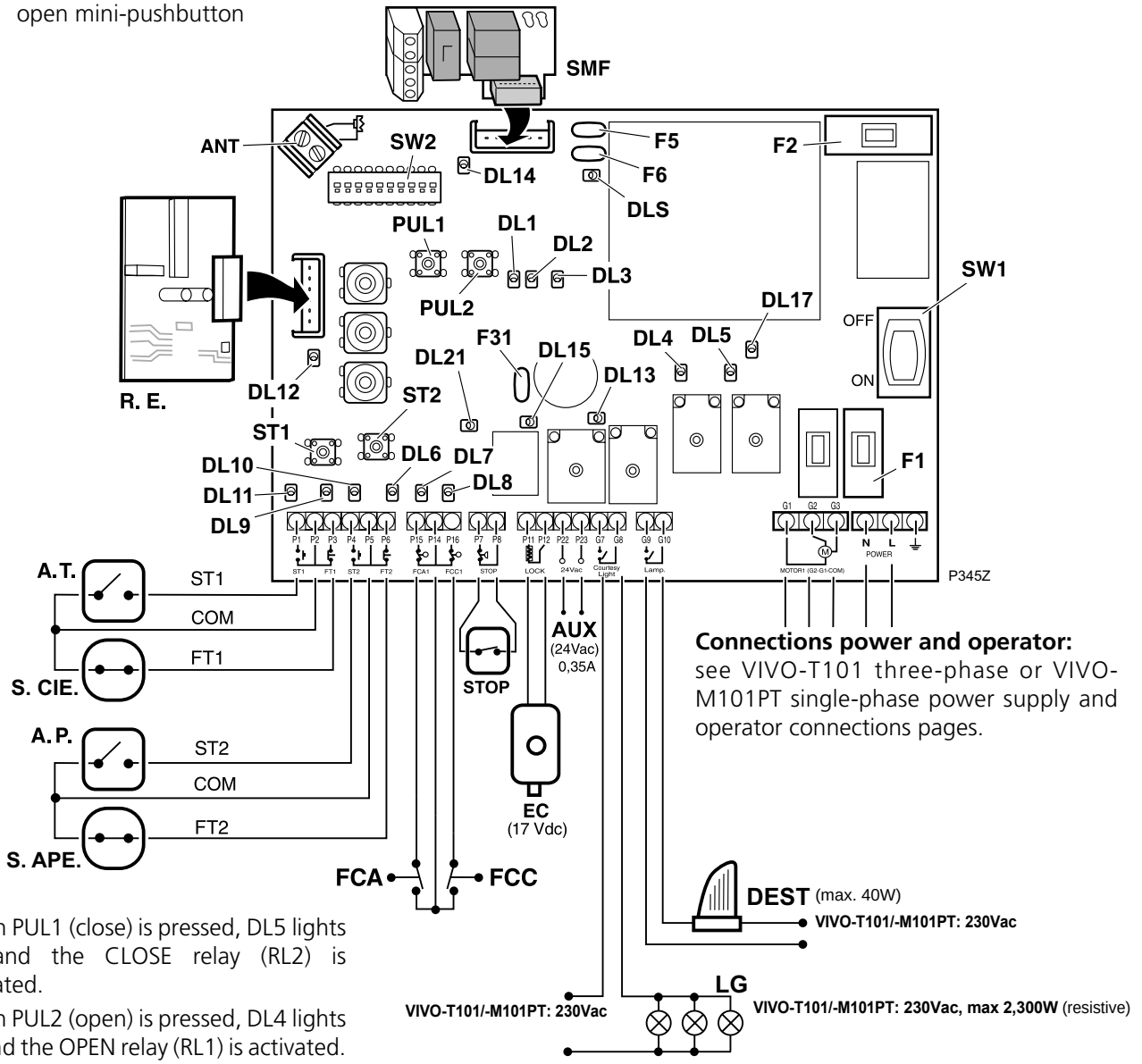
☞ When PUL2 (open) is pressed, DL4 lights up and the OPEN relay (RL1) is activated.

Checking turning direction

Press PUL1 (close) and PUL2 (open) to check the turning direction of the operator. If it is not correct, interchange connections V and W.

Connections (except power supply and operator) VIVO-T101 and VIVO-M101PT

PUL1: close mini-pushbutton
PUL2: open mini-pushbutton



Connections power and operator: see VIVO-T101 three-phase or VIVO-M101PT single-phase power supply and operator connections pages.

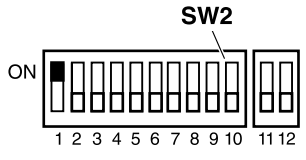
- When PUL1 (close) is pressed, DL5 lights up and the CLOSE relay (RL2) is activated.
- When PUL2 (open) is pressed, DL4 lights up and the OPEN relay (RL1) is activated.

DL1 Gate totally or partially open
DL1 - DL3 flashing: STOP contact open (emergency stop activated)
DL2 Receiving RSD plug-in receiver radio signal (RUN/OK)
DL3 Radio code or operation programming
DL4 Opening relay activated
DL5 Closing relay activated
DL6 Opening safety device contacts (FT2) closed
DL7 FCA contacts closed
DL8 FCC contacts closed
DL9 Safety device contacts in closing (FT1) closed
DL10 Pedestrian key command (ST2)
DL11 Total key command (ST1)
DL12 Plug-in receiver key command (except RSD)
DL13 Garage light relay activated
DL14 Power supply
DL15 Electrolock relay activated
DL17 Triac M1 activated
DL21 Settable fuse F31 LED**
DLS Settable fuse F5, F6 LED**
**: DL ON: fuse closed; DL OFF: fuse open

Fuses:

F1 M1 motor fuse: 2.5A (230Vac/50Hz)
F2 Electronic fuse: 0.5A (230Vac/50Hz)
F31 24Vac/350mA output settable* fuse;
F5, F6 Secondary settable* fuse
*: resets automatically when overload ends

SW2 Functions during programming (DIP1=ON)



DIP1=ON: programming enabled (DL3 lights up)
DIP1=ON and DIP2=ON: total open/close programming
DIP1=ON and DIP3=ON: pedestrian open/close programming
DIP1=ON and DIP4=ON: total opening radio code programming
DIP1=ON and DIP6=ON: pedestrian opening radio code programming

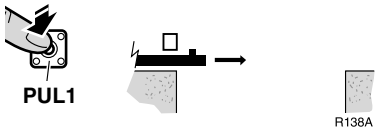
Using radio cards

This control board is factory set to use a two-channel receiver (e.g. IRRE2). This factory setting is modified if an RSD receiver is used and a permanent code is recorded (decoding through the board, DIP1 + DIP4 or DIP6 = ON). To restore the default configuration, insert the IRRE2 card, place DIP1 + DIP4 or DIP6 = ON and press the transmitter. Then return the DIPs to their previous position.

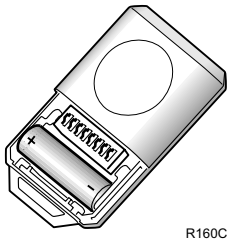
Total opening radio code programming (with RSD receiver only)

☞ If a receiver other than RSD is used, see the corresponding instructions.

1 Connect the electrical power and close the door by holding down PUL1.



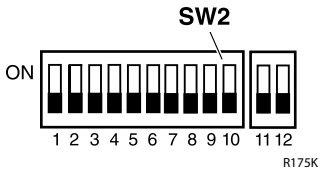
2 Select the code in the transmitter.



3 Place the DIPs as shown in the figure (DIP1=ON, DIP4=ON). DL3 lights up to show programming mode enabled.

4 Press the button of the required channel. DL2 flashes to show programming is complete.

5 Place DIP1 and DIP4 in OFF. DL3 remains off.



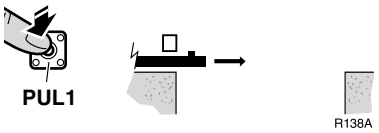
6 Disconnect and reconnect the electrical power supply.

Pedestrian opening radio code

Programming is carried out in the same way, using DIP6 instead of DIP4.

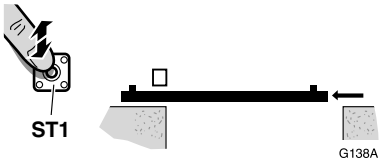
Total open/close programming

1 Connect the electrical power and close the door by holding down PUL1.

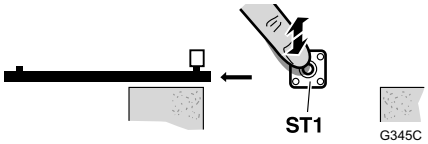


2 Place DIP1 in ON, DIP2 in ON. DL3 lights up (programming enabled).

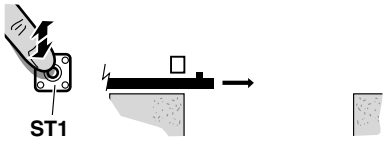
3 Press ST1 to start opening.



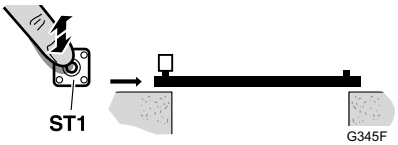
4 Press ST1 to finish opening; if the Opening Limit Switch (FCA) is installed, wait for the limit switch to finish opening.



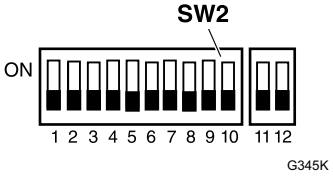
5 Press ST1 to start closing.



6 Press ST1 to finish closing; if the Closing Limit Switch (FCC) is installed, wait for the limit switch to finish closing.



7 Place DIP1 and DIP2 in OFF. DL3 remains off.



Pedestrian open/close programming

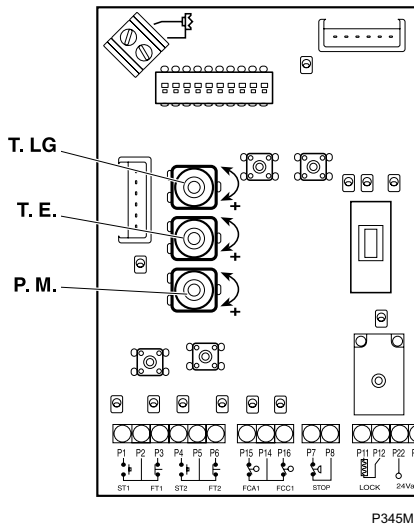
This is carried out in the same way as total open/close programming, with the following differences:

- DIP1 and DIP3 are used instead of DIP1 and DIP2
- ST2 is used instead of ST1

Function and mode selection using SW2 (DIP1 = OFF)

DIP	Modes and functions	Option	Effect
DIP1		OFF	
DIP2	Advance warning	ON	the flashing light comes on and the operation begins after a 3 second warning
		OFF	the flashing light comes on and the operation begins immediately
DIP3	Opening mode	ON	**step-by-step opening** (the gate halts if a key device is enabled during opening, and closes if enabled again)
		OFF	**collective opening** (the control board does not obey the key commands during opening)
DIP4	Automatic or step-by-step mode (for pedestrian and total operation)	ON	**automatic mode** (the gate closes automatically after standby time has passed, which is adjusted using T.E.). Standby time restarts if the photocell is enabled.
		OFF	**step-by-step mode** (the gate only closes when receiving the key command)
DIP5	Operation of ST1 and ST2	ON	ST1 starts full opening and ST2 starts full closing
		OFF	ST1 starts full opening and ST2 starts pedestrian opening
	DIP5 functionality varies when Dead-Man Mode is activated (DIP10=ON). Follow the DIP10 instructions when activating DIP10=ON		
DIP6	Automatic mode optional (only if DIP4 = ON)	ON	during standby, the gate obeys the key commands (can be closed before standby time finishes)
		OFF	the gate cannot be closed until standby time finishes; a key command will cause standby time to restart
DIP7	Reserved for future upgrades	OFF (always set to OFF)	
DIP8	Reserved for future upgrades	OFF (always set to OFF)	
DIP9	Reserved for future upgrades	OFF (always set to OFF)	
DIP10	Dead man function Only with DIP4=OFF and DIP11=OFF	ON	with DIP5=OFF: HPAC (Dead-Man Mode Opening and Closing); opening is done by holding down ST1, and closing is done by holding down ST2 with DIP5=ON: HPAC (Dead-Man Mode Closing); opening is done by briefly pressing ST1, and closing is done by holding down ST2
		OFF	dead-man function disabled
DIP11	Interlock mode Only with DIP4=ON	ON	interlock mode with closing photocell (FT1)
		OFF	Interlock mode disabled
DIP12	Reserved for future upgrades	OFF (always set to OFF)	

Potentiometer adjustment



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T.LG (garage light time): If the garage lighting circuit has been connected to the control board, set the time which the lights shall remain on using T.LG.

T.E. (gate open standby time): if automatic functioning mode has been programmed (DIP4=ON), set T.E. to adjust standby time with the gate open (before automatic closing begins).

P.M (motor torque): without use.

⚠ **This panel does not include the torque adjustment function. If the operator has a torque regulating clutch: adjust it relative to the maximum closing thrusts set out in Standard EN12453:2000. Make the readings as described in Standard EN12445:2000. If it does not have a torque regulating clutch: in dead-man mode, the commands must be located as set out in EN12453:2000; forces must be limited in semi-automatic and automatic mode by means of an active sensitive edge, as specified in EN12453:2000; in automatic mode, also install at least one pair of photocells.**