# VIVO-M201(M)

Quick installation and programming guide

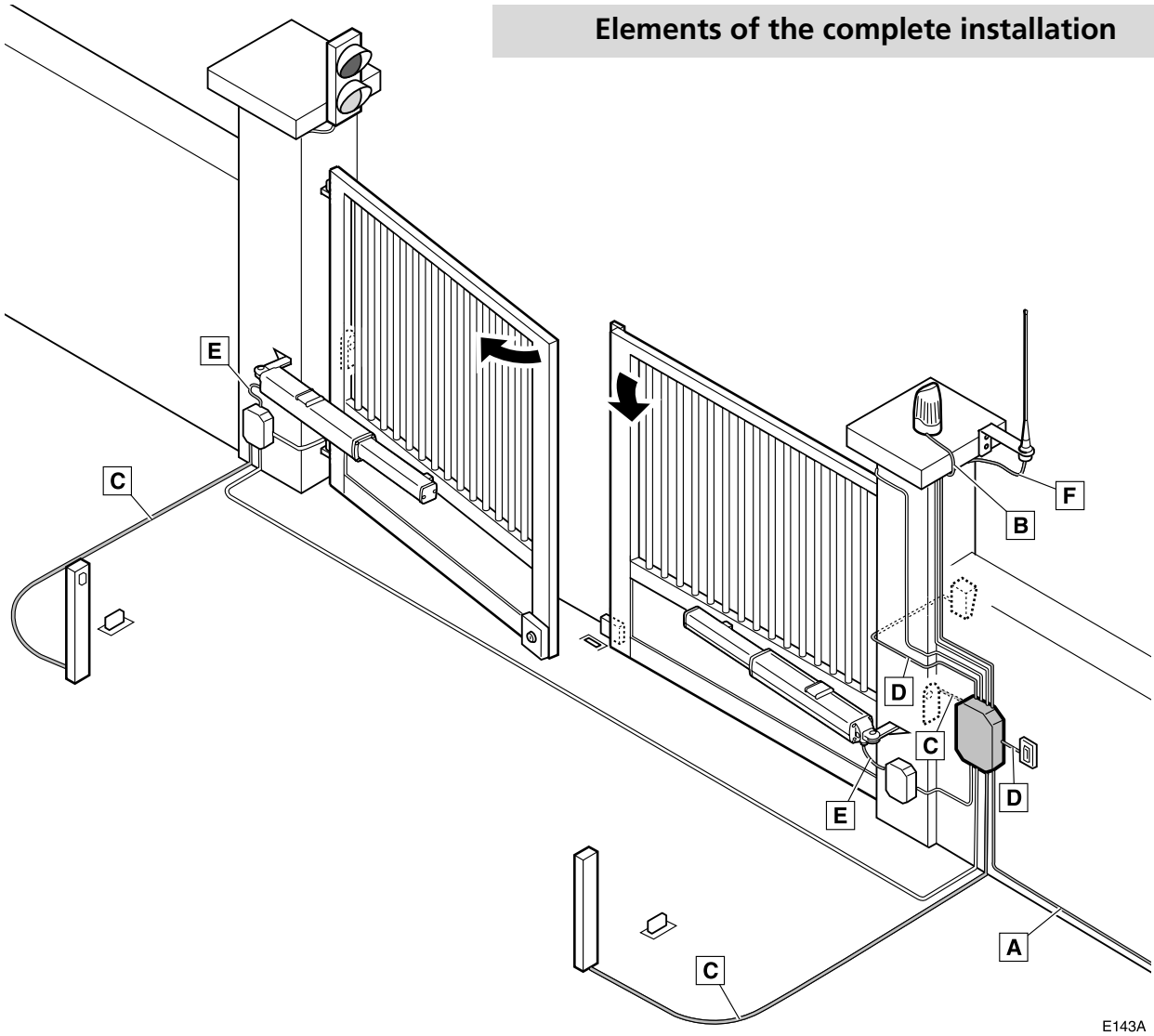
English

**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




ELECTRICAL CABLING:

| Element | N° wires x section | Maximum length |
|---|---|---|
| A: Main power supply | 3x1.5mm$^2$ | 30m |
| B: Flashing light | 2x0.5mm$^2$ | 20m |
| C: Photocells (Tx / Rx) | 2x0.5mm$^2$ / 4x0.5mm$^2$ | 30m |
| D: Key switch | 2x0.5mm$^2$ | 25m |
| E: Operator | 4x0.75mm$^2$ | 20m |
| F: Antenna | Coaxial cable 50Ω (RG-58/U) | 5m |

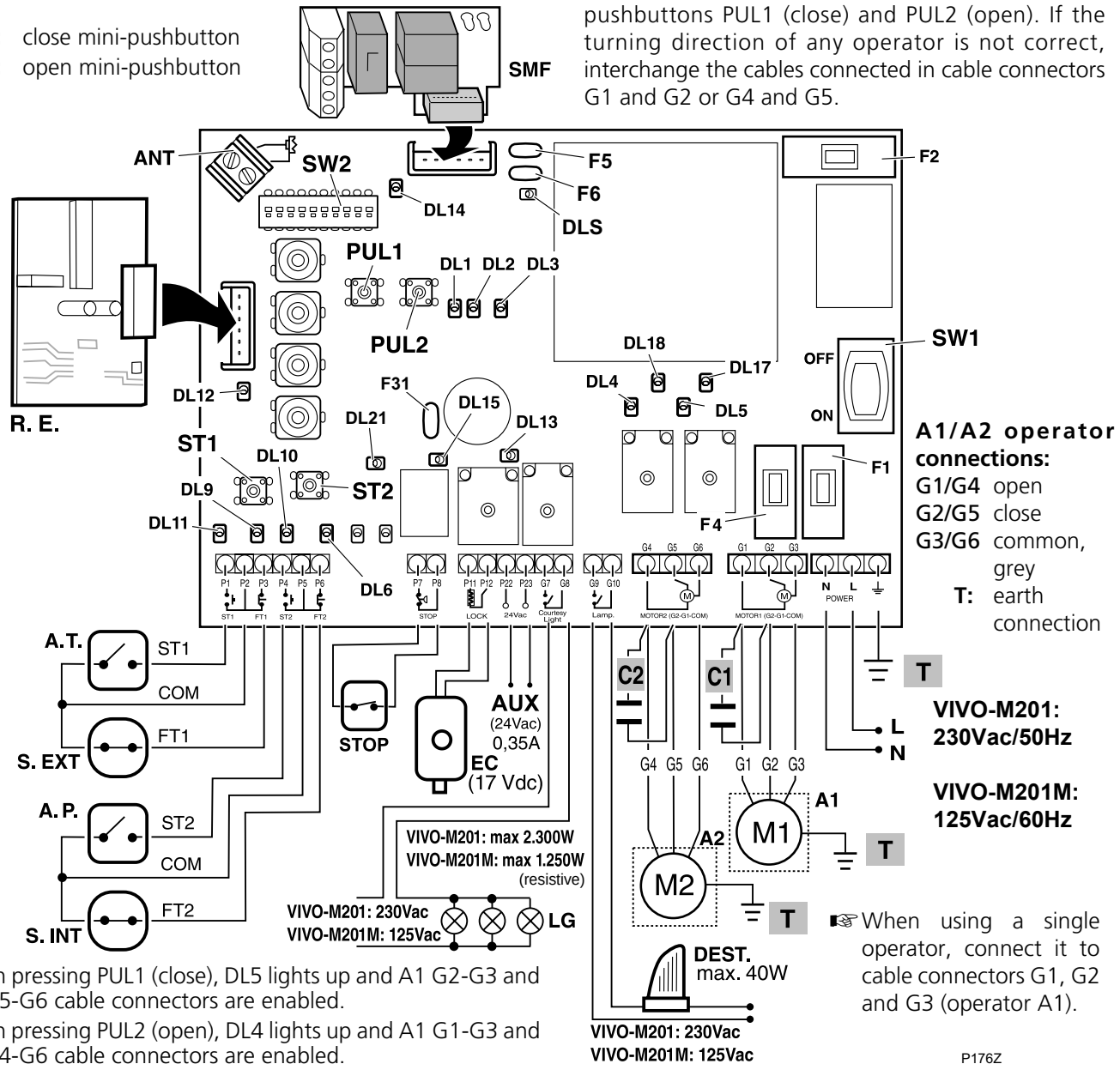
firmware V3.03 or later

MSA-098/07 – 2022/06/06

## General connections

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

**Turning direction:** check operation using the mini-pushbuttons PUL1 (close) and PUL2 (open). If the turning direction of any operator is not correct, interchange the cables connected in cable connectors G1 and G2 or G4 and G5.



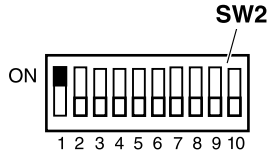

- When pressing PUL1 (close), DL5 lights up and A1 G2-G3 and A2 G5-G6 cable connectors are enabled.
- When pressing PUL2 (open), DL4 lights up and A1 G1-G3 and A2 G4-G6 cable connectors are enabled.

☞ When using a single operator, connect it to cable connectors G1, G2 and G3 (operator A1).

**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** Interior safety device contacts (FT2) closed
**DL9** Exterior safety device contacts (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
**DL18** Triac M2 activated
**DL21** Settable fuse F31 LED**
**DLS** Settable fuse F5, F6 LED**
**: DL ON: fuse closed; DL OFF: fuse open

**F1** M1 Motor fuse
– M201: 2,5A (230Vac/50Hz)
– M201M: 6,3A (125Vac/60Hz)
**F2** Electronic fuse
– M201: 0,5A (230Vac/50Hz)
– M201M: 1A (125Vac/60Hz)
**F31** 24Vac/350mA output settable* fuse
**F4** M2 Motor fuse
– M201: 2,5A (230Vac/50Hz)
– M201M: 6,3A (125Vac/60Hz)
**F5, F6** Secondary settable* fuse
*: Resets automatically when overload ends

## SW2 Functions during programming (DIP1=ON)

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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

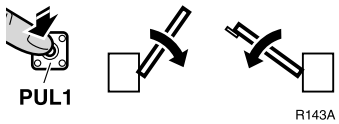
## Using radio cards

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 recover the factory settings, insert the IRRE2 card and place DIP1 + DIP4 or DIP6 = ON and press the transmitter. Then return the DIPs to their previous position.

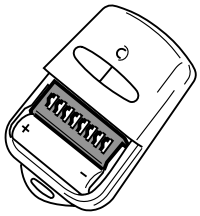
## Total opening radio code programming (with RSD receiver only)

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

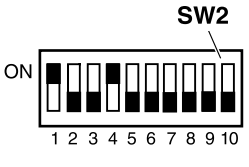
**1** Connect the electrical power supply and close the leaves, keeping PUL1 pressed down.



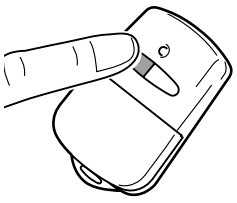

**2** Select the code in the transmitter.




**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.

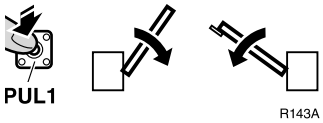
### Pedestrian opening radio code

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

## Total open/close programming

☞ If a single operator is used (A1), the three strokes of ST1 corresponding to step 6 must be carried out quickly in order to keep the corresponding A2 times to a minimum. Similarly, the three strokes of ST1 corresponding to steps 7, 8 and 9 must be carried out quickly.

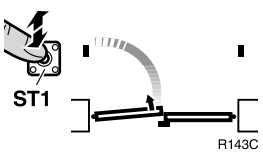
**1** Connect the electrical power supply and close the leaves, keeping PUL1 pressed down.



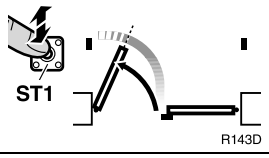

**2** Place DIP1 in ON, DIP2 in ON, DIP5 in ON (only with electrolock), DIP8 in ON (soft stop)*.


DL3 lights up (programming enabled).

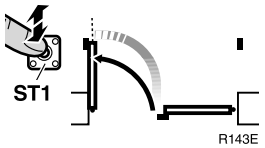
**3** Press ST1 to start opening leaf 1.



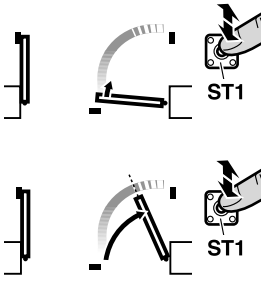

**4** Press ST1 to start soft stop (with DIP8=ON only).

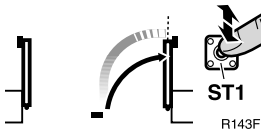



**5** Press ST1 to finish opening.

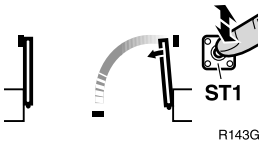



**6** Carry out the same sequence with leaf 2.

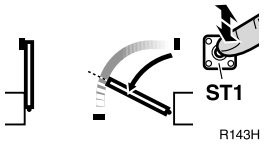


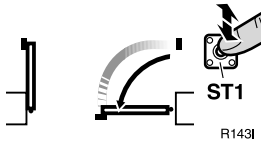

**7** Press ST1 to start closing leaf 2



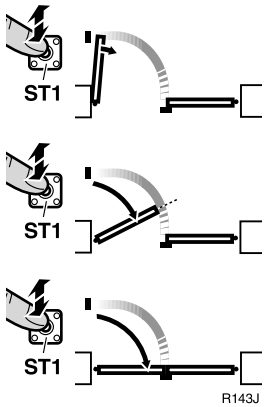

**8** Press ST1 to start soft stop (with DIP8=ON only).



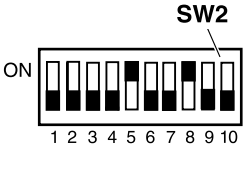

**9** Press ST1 to finish closing.




**10** Carry out the same sequence with leaf 1.




**11** Place DIP1 and DIP2 in OFF. DL3 remains off.




*: If hydraulic operators with absorbers are used, soft stop is carried out mechanically by the operator (DIP8 = OFF)

## Pedestrian open/close programming

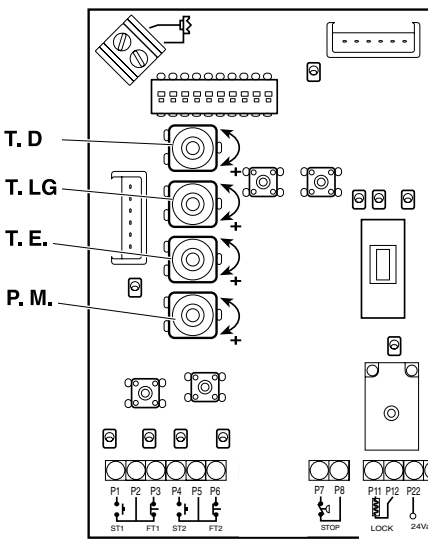
This is carried out in the same way as total open/close programming, with the following differences:

- DIP1 and DIP3 are used instead of DIP1 and DIP2
- Carried out only with leaf 1
- 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 | Reverse impulse / close impulse | ON | recede impulse enabled. If soft stop is selected (DIP8=ON), a close impulse is also carried out |
| | | OFF | close and recede impulse disabled |
| 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 | Maintaining hydraulic pressure (for hydraulic operators only) | ON | perform a closing and opening pulse (if the doors remain open) on both leaves every two hours, in order to maintain hydraulic pressure |
| | | OFF | maintain pressure disabled |
| DIP8 | Soft stop (only for operators without mechanical absorber) | ON | the leaves reduce their speed before reaching the stopper |
| | | OFF | the leaves reach the stopper at high speed |
| DIP9 | Anti-crushing function (obstacle detection); the obstacles are only detected when the gate has come to a complete halt (only for electromechanical actuators) | ON | Function activated: during quick travel, the gate detects obstacles upon collision and recedes (when soft stop is activated, DIP8 = ON) or remains shut down (when soft stop is disabled, DIP8 = OFF) in order to prevent crushing. NOTE: detection works during closing or opening at high speed |
| | | OFF | Function disabled |
| DIP10 | No function | | place always in OFF |

## Potentiometer adjustment



P176M

**T.D (lapse between leaves):** With the potentiometer set to the minimum there is no delay time in opening or closing, i.e. the two leaves begin to open at the same time and end up closing at the same time. With the potentiometer set at more than the minimum, the delay time on the opening will be approximately three seconds, and up to 20 seconds maximum on closing.

**T.LG (garage light time):** if the garage lighting circuit has been connected to the control board, regulate 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):** use P.M. to adjust the maximum operator power value.

- Hydraulic operators: set P.M. at the maximum value.
- Electromechanical Actuators (anti-crushing function sensitivity): set P.M at the minimum value possible, compatible with the proper operation of the gate.

⚠ **Adjust the torque to respect the maximum closing thrusts set out in Standard EN12453:2000. Make the measurements as described in Standard EN 12445:2000.**