

This quick guide is a summary of the complete installation manual. The manual contains safety warnings and other explanations which must be taken into account. The most recent versions of this guide and the installation manual are available at the "Downloads" section on Erreka's website.
<http://www.erreka-automation.com>

WARNING

The options and functions described in this guide apply for the firmware version indicated on the circuit. The firmware, as part of a process of continuous improvement, is subject to new functionalities or upgrades being included as a result of new versions which are not necessarily compatible with previous ones. For this reason, some options or functions may differ or be unavailable if your firmware is older than shown in this guide.

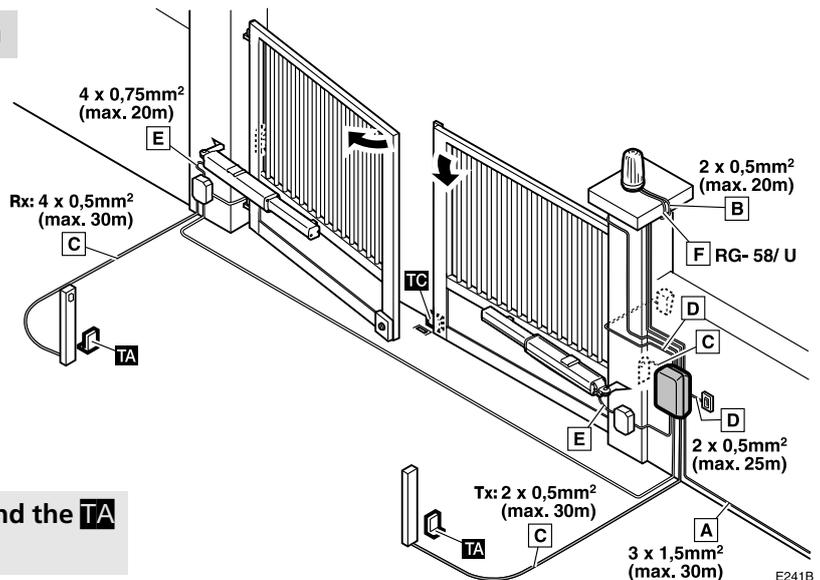
Elements of the complete installation

NOTE: this control panel is valid for operators for the following types of door and gate:
 swing (C 30 I),
 sliding (C 302),
 up-and-over (C 303).

Electrical wiring

- A: Main power supply
- B/F: Flashing light with antenna
- C: Photocells (Rx/Tx)
- D: Key switch
- E: Operator

VERY IMPORTANT: the **TC** closing stopper and the **TA** opening stoppers must be installed.



Power supply and peripheral cabling (valid for all cases)

EPS1: traffic light card (with parameter R600) or brake card (with parameter R60 I, see connection diagram on page 12). See other options on page 16.

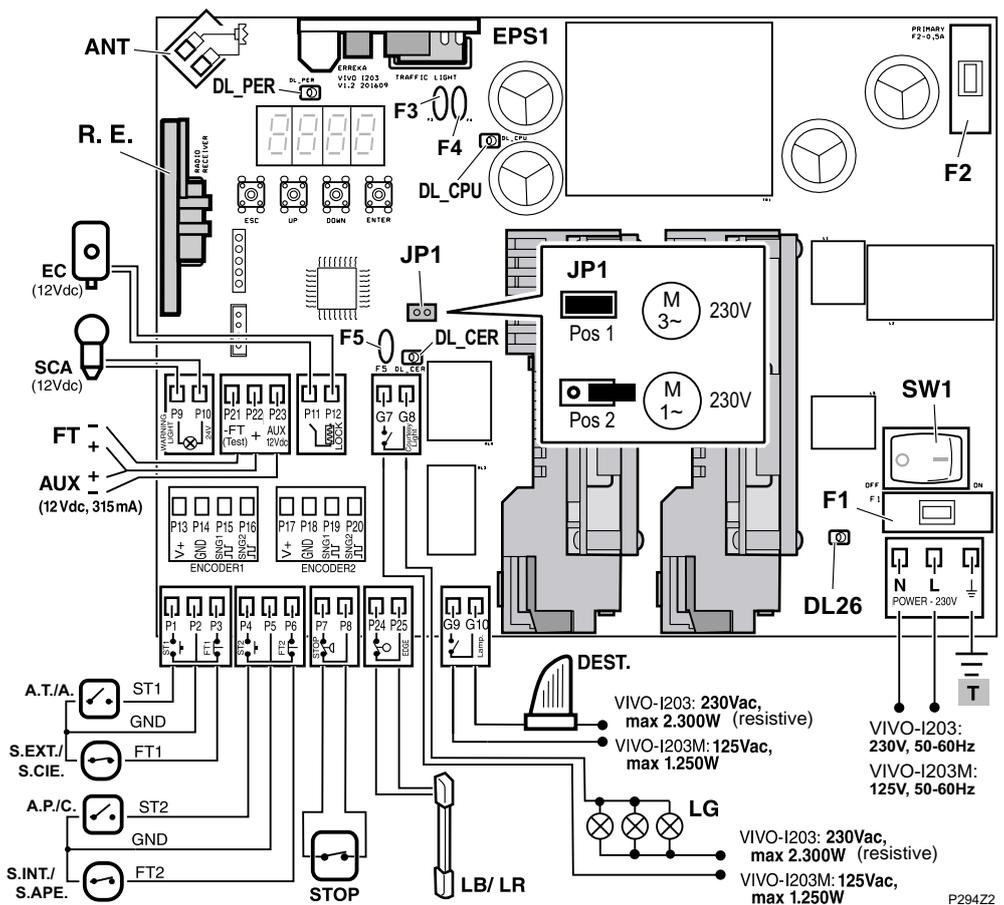
See the Display indications on page 12.

- F1: main fuse 4A
- F2: primary fuse 0,5A
- F3: electronic fuse 350mA (settable)*
- F4: peripherals fuse 350mA (settable)*
- F5: lock fuse 350mA (settable)*

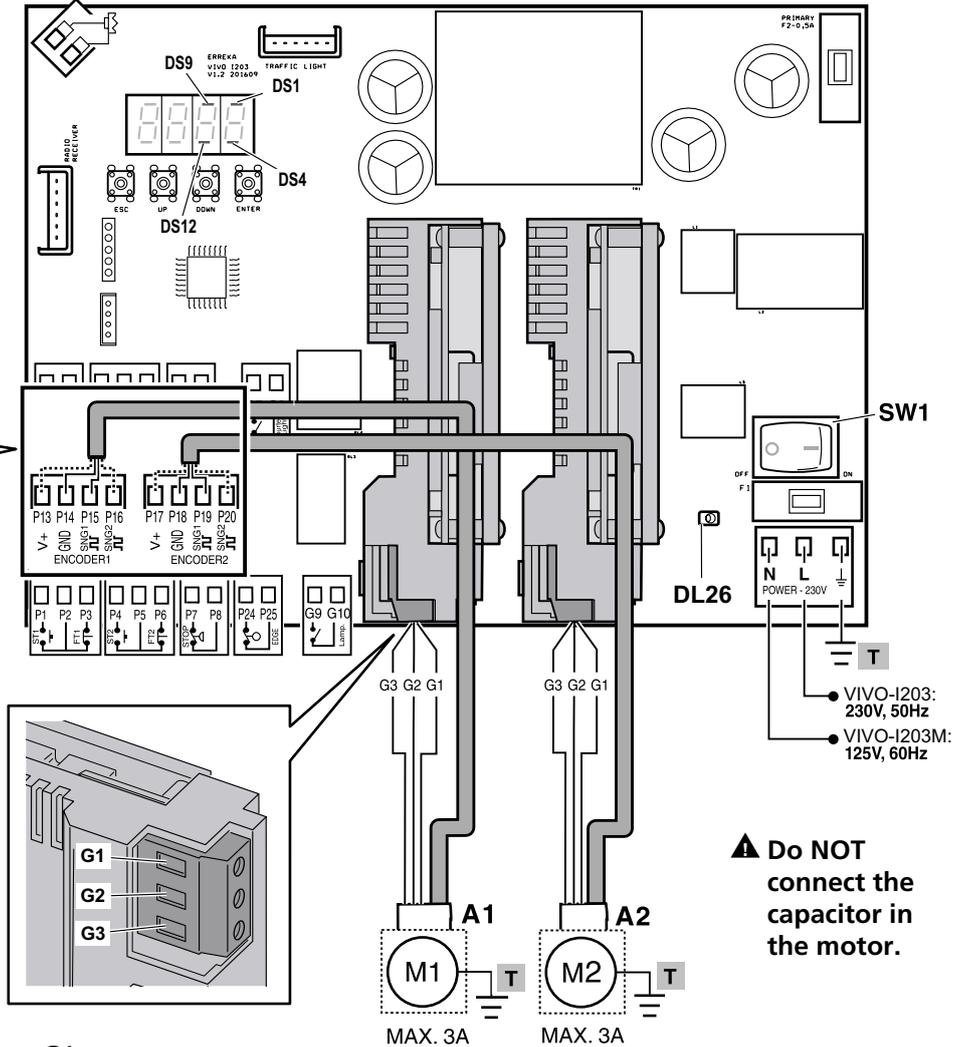
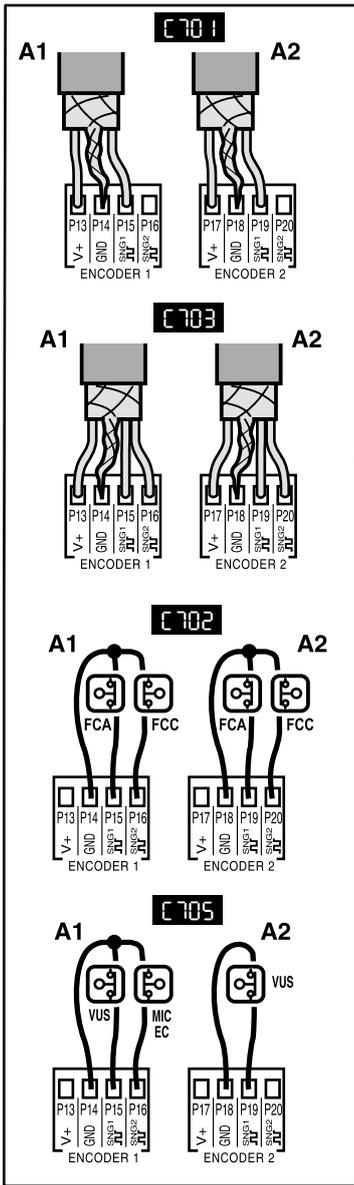
*: resets automatically when overload ends

- DL_CPU: LED fuse F3**
 - DL_PER: LED fuse F4**
 - DL_CER: LED fuse F5**
- ** : DL ON: fuse closed;
 DL OFF: fuse open

DL26: LED Continuous Bus



Operator connections for swing gates with single or double leaf (parameter C 30 I)



⚠ Do NOT connect the capacitor in the motor.

G1: open
G2: close
G3: common

A1: operator 1
A2: operator 2

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DS9: SNG1 LED (FCA/encoder) A1
DS12: SNG2 LED (FCC/encoder) A1

DS1: SNG1 LED (FCA/encoder) A2
DS4: SNG2 LED (FCC/encoder) A2

Single encoder connection (C 701)

V+: red wire
GND: screen
SGN1: green or blue wire
SGN2: do not connect

Limit switches connection (C 702)

V+: do not connect
GND: common (COM)
SGN1: opening (FCA)
SGN2: closing (FCC)

Dual encoder connection (C 703)

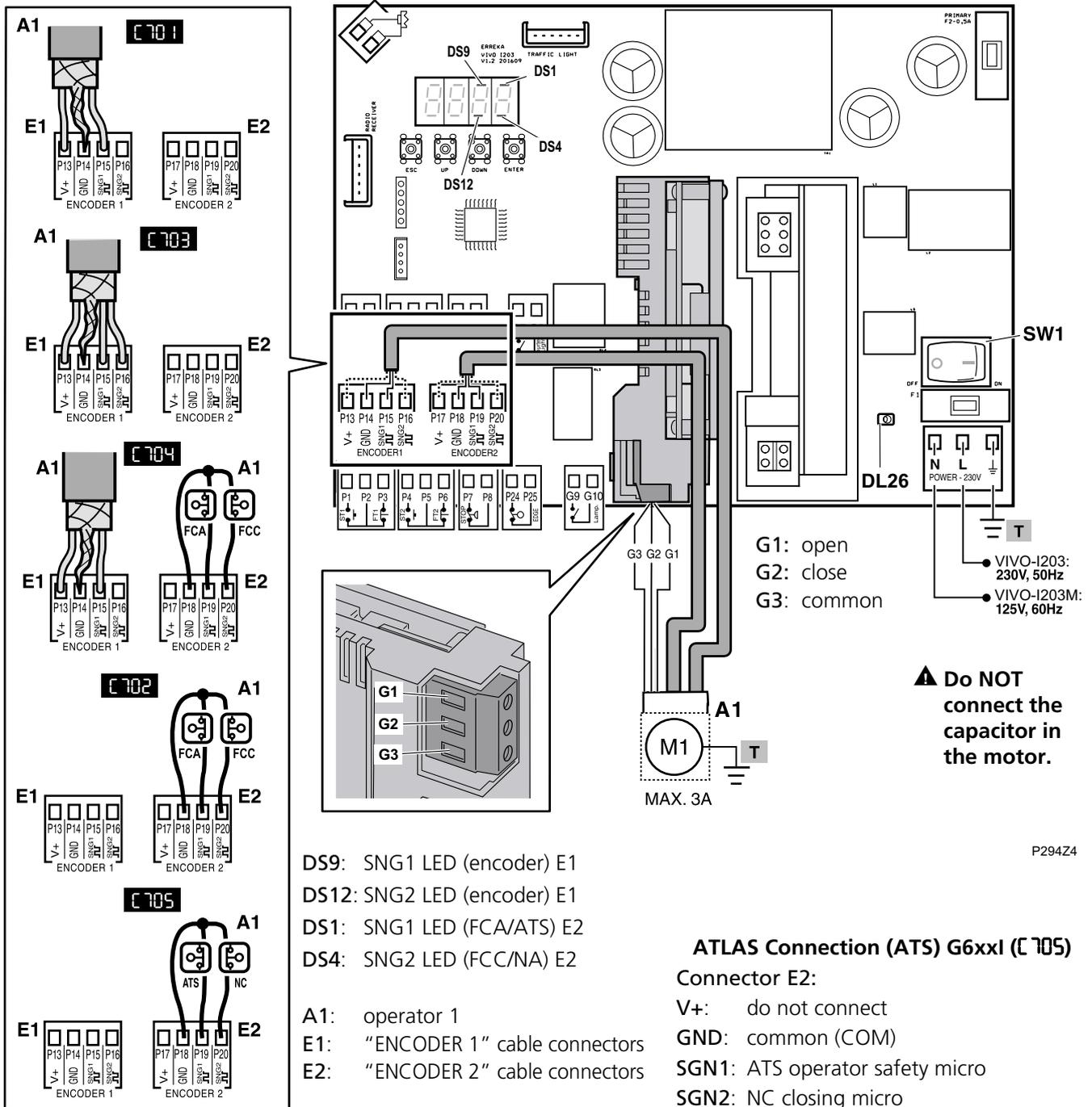
V+: red wire
GND: screen
SGN1: green or blue wire
SGN2: white wire

Vulcan connection VUS (C 705)

V+: do not connect
GND: common (COM)
SGN1: VUS operator safety micro
SGN2: electrolock micro (in A1 connector only)

⚠ The C 704 option is not available for swing gate operators. If C 704 is selected, it will work as C 701.

Operator connections for sliding gates and up-and-over doors (parameters [302 and [303)



⚠ Do NOT connect the capacitor in the motor.

G1: open
G2: close
G3: common

DS9: SNG1 LED (encoder) E1
DS12: SNG2 LED (encoder) E1
DS1: SNG1 LED (FCA/ATS) E2
DS4: SNG2 LED (FCC/NA) E2

A1: operator 1
E1: "ENCODER 1" cable connectors
E2: "ENCODER 2" cable connectors

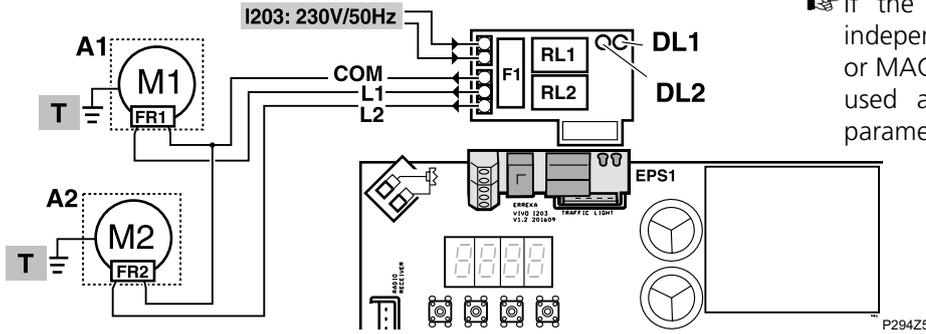
ATLAS Connection (ATS) G6xxI ([705)
Connector E2:
V+: do not connect
GND: common (COM)
SGN1: ATS operator safety micro
SGN2: NC closing micro

Single encoder connection ([701)	Limit switches connection ([702)	Dual encoder connection ([703)	FC and single encoder connection ([704)	
Connector E1:	Connector E2:	Connector E1:	Connector E1:	Connector E2:
V+: red wire	V+: do not connect	V+: red wire	V+: red wire	V+: do not connect
GND: white wire	GND: common (COM)	GND: white wire	GND: white wire	GND: common (COM)
SGN1: green or blue wire	SGN1: opening (FCA)	SGN1: green or blue wire	SGN1: green or blue wire	SGN1: opening (FCA)
SGN2: do not connect	SGN2: closing (FCC)	SGN2: purple wire	SGN2: do not connect	SGN2: closing (FCC)

⚠ In sliding gates ([302) and up-and-over doors ([303) it is only possible to use a single motor (M1), which should be connected to the "MOTOR 1" cable connectors. When using a single encoder ([701, [704) or dual encoder ([703), always connect it to the "ENCODER 1" cable connectors. When using limit switches ([702, [704 or [705), always connect to the "ENCODER 2" cable connectors.

Brake connections

☞ If the operator is fitted with a brake connected internally to the motor (for example, ORION operators), it is not necessary to connect the brakes, although slowdown should be cancelled (select $\text{C}R00$).



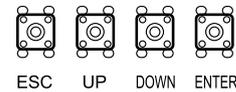
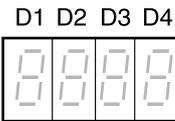
☞ If the operator is fitted with a brake for independent connection (for example, CICLON or MAGIC operators), the EPS1 card should be used as shown in this diagram, selecting parameter $Rb01$.

DL1: Red LED, FR1 activation
DL2: Green LED, FR2 activation

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Display indications

☞ The display shows a horizontal segment in D4 whenever no key is pressed for 15 minutes. This will come on when pressing either of the ESC, ENTER buttons.



M294C

D1 and D2 (gate status):

$\text{C}L$ (static)	Gate closed
$\text{C}L$ (flashing)	Gate closing
$\text{O}P$ (static)	Gate open
$\text{O}P$ (flashing)	Gate opening
$\text{P}C$ (flashing)	Pedestrian door closing
$\text{P}O$ (static)	Pedestrian door open
$\text{P}O$ (flashing)	Pedestrian door opening
$\text{X}X$ (countdown)	Gate on standby
$\text{P}R$ (static)	Pause (operation not complete)
rS (static)	Gate resetting (searching for closing or opening position)
$\text{H}P$ (static)	Dead Man function

D3 and D4 (error messages):

$\text{C}4$	Opening safety device enabled
$\text{C}5$	Closing safety device enabled
$\text{C}9$	Mechanical or resistive strip enabled
$\text{E}1$	Motor 1 encoder failure
$\text{E}2$	Motor 2 encoder failure
$\text{F}1$	Motor 1 force limit exceeded
$\text{F}2$	Motor 2 force limit exceeded
$\text{S}tOP$	STOP connector enabled
HEAT	Excessive heating inverter modules
$\text{C}0n1$	Inverter module 1 communication failure
$\text{C}0n2$	Inverter module 2 communication failure

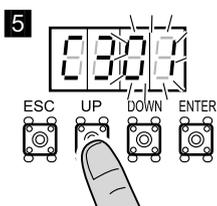
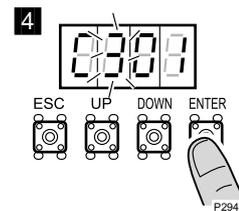
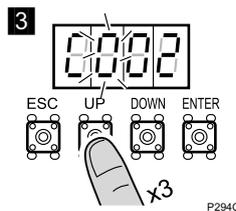
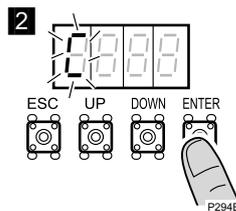
D3 and D4 (during operation):

8888	FT1 enabled	8888	FT2 enabled
8888	Green traffic light enabled	8888	Flashing light
8888	FCA E1 enabled	8888	FCA E2 enabled
8888	Radio order (not RSD)	8888	RSD Radio signal (frame)
8888	FCC E1 enabled	8888	FCC E2 enabled
8888	ST1 enabled	8888	ST2 enabled
8888	Red traffic light enabled	8888	LG enabled
8888	Inverter 1 module	8888	Inverter 2 module
8888	Operator 1 encoder	8888	Operator 2 encoder

☞ In swing gates, $\text{C}4$ refers to the interior photocell and $\text{C}5$ to the exterior photocell (instead of opening and closing, respectively).

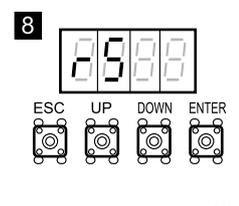
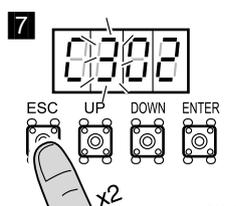
Gate type selection ($\text{C}3$)

1 Press ENTER, with the display showing $\text{C}L88$ or $r5XX$ ($r598$, $r588$, $r588$, $r588$, etc).



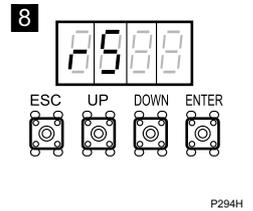
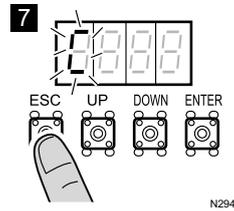
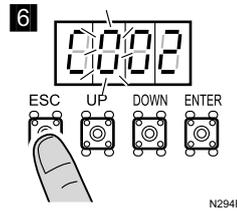
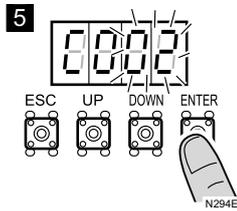
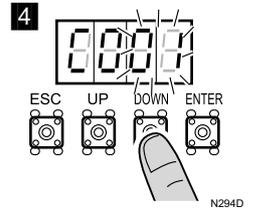
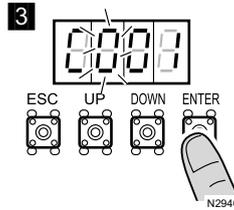
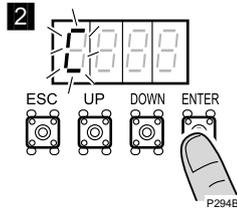
6 Select gate type:
 $\text{C}301$: swing
 $\text{C}302$: sliding
 $\text{C}303$: up-and-over

Press ENTER



Operator number selection (C0); in swing gates only (C30 I)

1 Press ENTER, with the display showing C L88 or r5XX (r588, r588, r588, r588, etc).

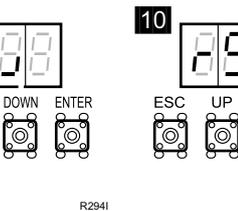
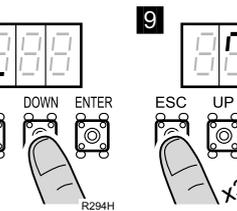
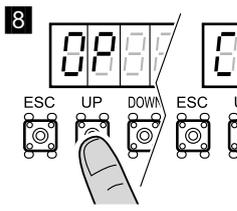
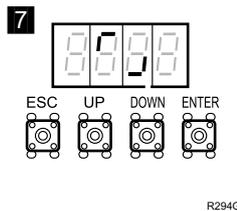
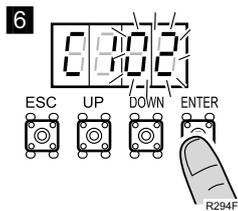
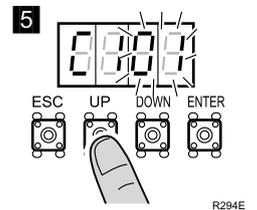
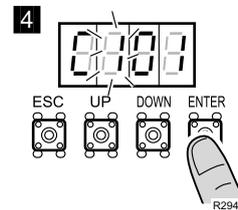
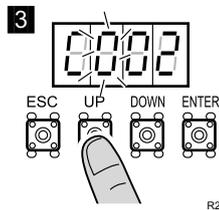
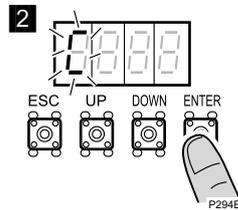


Change and check of A1 operator turning direction (C I)

☞ This operation is only necessary if operator A1 closes the leaf instead of opening it when resetting (r5).

☞ In step 7 - 8, check turning direction using UP (open) and DOWN (close). C I is used to activate operator 1 and C 2 is used to activate operator 2.

1 Press ENTER, with the display showing C L88 or r5XX (r588, r588, r588, r588, etc).



Change and check of A2 operator turning direction (C 2)

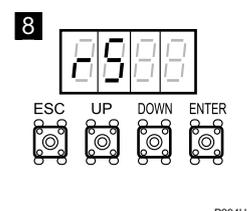
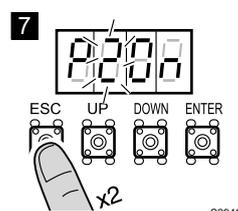
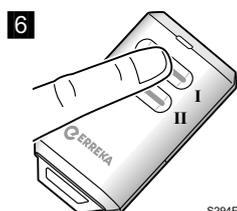
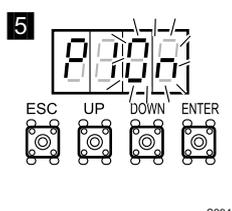
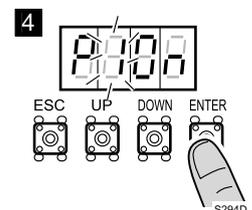
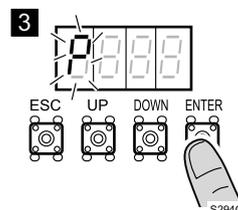
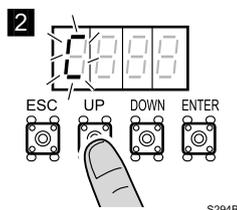
☞ This procedure is the same as for operator A1, but using parameter C 2 instead of C I.

Total opening radio code programming P I (with RSD receiver only, C80 I)

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

☞ Select the C80 I option (RSD receiver) before starting programming.

1 Press ENTER, with the display showing C L88 or r5XX (r588, r588, r588, r588, etc).



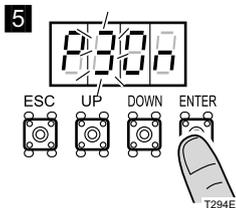
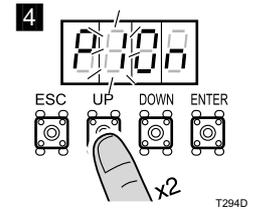
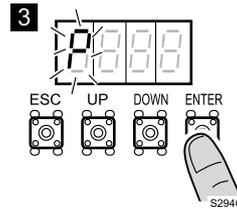
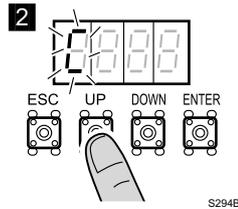
Pedestrian opening radio code programming, P 2 (with RSD receiver only)

☞ This procedure is the same as for total opening, but using parameter P 2 instead of P I.

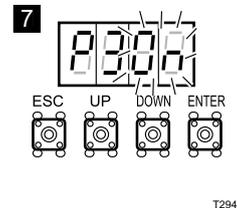
Gate open/close programming (all cases)

▲ The opening and closing stopper must be installed before programming the travel (see the operator manual).

1 Press ENTER, with the display showing CL88 or $r5XX$ ($r598$, $r588$, $r588$, $r588$, etc.).

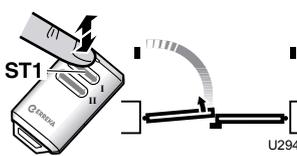


6 With encoder and/or obstacle detection and/or limit switches, the gate carries out the approach operation (opening for 4 seconds and then closing to programme the closing point). It also carries out slowdown in accordance with the value CR . In other cases, close the gate before starting programming.

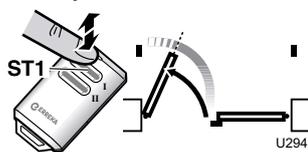


The procedure with a swing gate is shown below. Proceed in the same manner for sliding gates or up-and-over doors.

8 Start opening of leaf 1 with ST1:

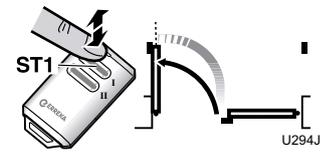


9 Start slowdown of leaf 1 with ST1 (only with CR01 or CR02):



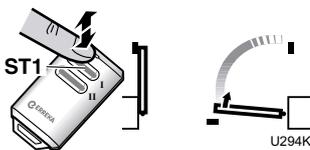
10 Finish opening of leaf 1 with ST1:

In any case, this is carried out automatically when the opening stopper (with C701 , C703 , C704 or C705) or the FCA (with C702 or C704) is reached.

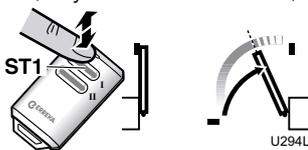


8b With C303 : press ST1 to start fast opening.

11 Start opening of leaf 2 with ST1:

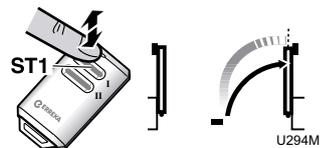


12 Start slowdown of leaf 2 with ST1 (only with CR01 or CR02):

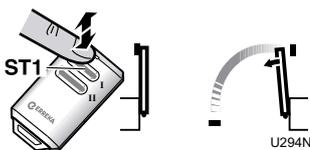


13 Finish opening of leaf 2 with ST1:

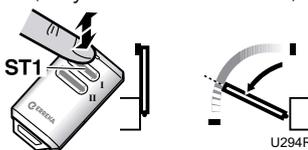
In any case, this is carried out automatically when the opening stopper (with C701 , C703 , C704 or C705) or the FCA (with C702 or C704) is reached.



14 Start closing of leaf 2 with ST1:

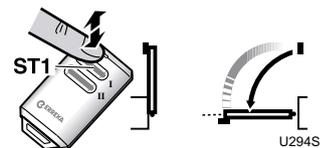


15 Start slowdown of leaf 2 with ST1 (only with CR01 or CR03):

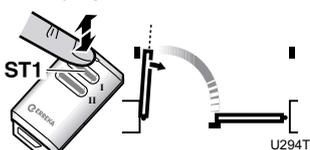


16 Finish closing of leaf 2 with ST1:

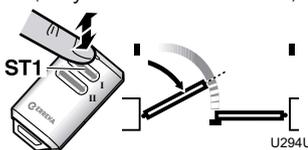
In any case, this is carried out automatically when the closing stopper (with C701 , C703 or C704) or the FCC (with C702 , C704 or C705) is reached.



17 Start closing of leaf 1 with ST1:

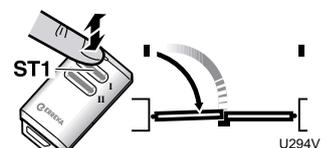


18 Start slowdown of leaf 1 with ST1 (only with CR01 or CR03):



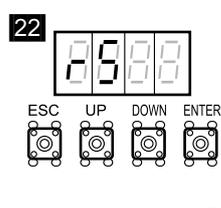
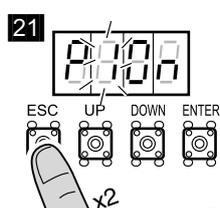
19 Finish closing of leaf 1 with ST1:

In any case, this is carried out automatically when the closing stopper (with C701 , C703 or C704) or the FCC (with C702 , C704 or C705) is reached.



17b With C303 : press ST1 to start fast closing.

20 The parameter R5XY is shown once programming is complete, indicating the suggested currents for Motor 1 (X) and Motor 2 (Y). These can be changed if required.



The anti-trapping safety system continues to run during programming operations.

Pedestrian opening is programmed using F3, meaning the travel for this pedestrian opening does not need to be programmed.

If an obstacle is detected during programming in up-and-over operation with C5 Closing photocell enabled, this will be considered the point from which the photocell shadow function should be enabled. This only works with Collective Opening (R90 I).

Complete programming table (I)

D1	D2	Parameter	D3	D4	Pre-set option	Options or values
C	0	Number of operators	0	1, 2	01 (VIVO-I103) 02 (VIVO-I203)	01: one operator, 02: two operators (only available with C301)
	1	Operator 1 turning direction	0	1, 2	01	01: direction A, 02: direction B. Check direction by pressing UP (open) and DOWN (close)
	2	Operator 2 turning direction	0	1, 2	01	01: direction A, 02: direction B. Check direction by pressing UP (open) and DOWN (close)
	3	Type of gate	0	1...3	01	01: swing, 02: sliding, 03: up-and-over
	4	Opening safety device (photocell)	0, 1	0, 1	00	00: not installed, 10: no testing, 11: with testing
	5	Closing safety device (photocell) Closing photocell with C520 or C521, also prevents the start of gate opening	0...2	0, 1	00	00: not installed, 10: no testing, 11: with testing, 20: no testing, 21: with testing
	6	Electrolock / electromagnet C630 and C640 are used to manage an external relay at 24Vdc, connected to cable connectors P11-P12. The electromagnet must be externally supplied (through this relay) and sized in line with the electromagnets used.	0...4	0...4	00	00: not installed 1X: electrolock without reverse impulse. Programmable electrolock time: 3 seconds with X=0 (by default), 3.5s with X=1, 4s with X=2, 4.5s with X=3, 5s with X=4. 2X: electrolock with reverse impulse. Programmable time (electrolock/motor reverse): 4.5/1.5 seconds with X=0 (by default), 5/2s with X=1, 5.5/2.5s with X=2, 6/3s with X=3, 6.5/3.5s with X=4. 30: electromagnet without impulse 40: drop electromagnet
	7	Encoder / Limit switches The connections depend on the type of operator selected (C301, C302 or C303); see the corresponding wiring diagram)	0	0...5	00	00: not installed; 01: with single encoder; 02: with limit switches; 03: with dual encoder; 04: with encoder and limit switches (not available with C301 selected); 05: VULCAN VUS and ATLAS (ATS) G6xxl (only available with C301 or C303 selected)
	8	Radio card	0	1, 2	02	01: RSD card (non-decoding); 02: two-channel decoder card
	9	Safety strip	0	1, 2	01	01: mechanical; 02: resistive 8k2
8	Slowdown	0	0...3	01	00: no slowdown; 01: slowdown in opening and closing; 02: slowdown in opening; 03: slowdown in closing	
P	1	Total opening radio programming	o	n		Programmes total opening code and channel
	2	Pedestrian opening radio programming	o	n		Programmes pedestrian opening code and channel
	3	Gate open/close programming	o	n		Programmes the operations in accordance with configuration CR
F	1	Key command using ST1 and ST2 pushbuttons. With F101 the gate (total or pedestrian) can be kept open by keeping ST1 or ST2 pressed down respectively. This allows the time scheduler to be used in combination with F2 and/or F4 ≠ 00.	0	0...4	01	00: ST1 and ST2 without effect, key commands are made by radio (channel 1: total opening-closing, channel 2: pedestrian opening-closing) 01: ST1 total opening-closing, ST2 pedestrian opening-closing 02: ST1 total opening, ST2 total closing 03: dead-man mode (the display shows HP); 04: dead-man mode in closing
	2	Automatic or step-by-step operation mode and standby time (in seconds) in automatic mode	0...5	0...9	00	00: step-by-step mode 01: automatic mode and stand-by time 1 second; ... 59: automatic mode and stand-by time 59 sec.; 10: 1 min. 0 sec.; ...; maximum 4 minutes
	3	Pedestrian opening (%)	0...9	0...9	40	00: pedestrian opening is not carried out, 10: 10% of the total opening, etc
	4	Pedestrian closing mode	0...5	0...9	00	00: step-by-step mode 01: automatic mode and stand-by time 1 second; ... 59: automatic mode and stand-by time 59 sec.; 10: 1 min. 0 sec.; ...; maximum 4 minutes

Complete programming table (and II)

D1	D2	Parameter	D3	D4	Pre-set option	Options or values
R	0	Flashing light	0	1, 2	01	01: without pre-warning; 02: with pre-warning
	1	Garage light time	0...5	0...9	03	03 = 3 sec.; 59 = 59 sec.; 2.5 = 2 min. 50 sec.; ...; maximum 4 minutes
	2	Gate speed The open/close run must be reprogrammed whenever this parameter is changed	0	1...9	03	01: minimum speed (40Hz); 02: 45Hz, 03: 50Hz, 04: 55Hz, ...; 09: maximum speed (80Hz)
	3	Slowdown speed The open/close run must be reprogrammed whenever this parameter is changed	0	1...9	03	01: minimum speed (21Hz); 02: 22Hz, 03: 23Hz, 04: 24Hz, ...; 09: maximum speed (29Hz)
	5	Reverse after closing (prevents the operator from seizing up on the stopper)	0	0...5	00	00: no reverse; ...; 05: maximum reverse
	6	Maximum entrapment current (each value equivalent to 0.5A). This only works in electromechanical operators. Digit D3 can be used to set the current of operator 1; Digit D4 can be used to set the current of operator 2	0...9	0...9	00	00: disabled; 01: disabled in operator 1 and 0.5A in operator 2; 10: 0.5A in operator 1 and disabled in operator 2; ...; 65: 3A in operator 1 and 2.5 in operator 2; ...; 99: 4.5A in operator 1 and in operator 2
	7	Crossing over photocell (opening or closing) during stand-by (in automatic mode only)	0	0...2	02	00: does not affect stand-by time 01: immediate close when the photocells are released 02: restarts standby time
	8	Effect of ST1-ST2 pushbuttons during stand-by time (in automatic mode only)	0	0...2	02	00: have no effect during stand-by 01: produce immediate closing 02: restart stand-by time
	9	Opening mode	0	1...3	02	01: collective opening 02: step-by-step alternative stop 03: automatic alternative stop (if F200 is selected, A903 becomes A902)
	R	Lapse between leaves in opening and closing	0...9	0...9	22	00: no lapse in opening or closing (apply only in gates with no overlap); XY: X lapse in opening (X=1: 1 second, ... , X=9: 9 seconds) Y lapse in closing (Y=1: 1 second, ... , Y=9: 9 seconds)
	b	Using the EPS1 card connector For parameters A602 and A603, use the EPS1 card and bridge the network input cable connectors instead of connecting them to the network (see "Brake connection" diagram)	0	0...3	00	00: use for standard traffic light; 01: use for brakes 02: NC contact with gate open (L1-COM) and gate closed (L2-COM) 03: impulse 1 second Open (L1-COM) when starting opening and Close (L2-COM) when starting closing. Allows another panel to be enabled
	c	Hydraulic pressure maintenance	0	0...6	00	00: no pressure maintenance; 01: every 0.5 hours; 02: every 1 hour; 03: every 2 hours; 04: every 6 hours; 05: every 12 hours; 06: every 24 hours
	d	Hammer	0	0, 1	00	00: no hammer; 01: with hammer
E	Special functions	0	0...2	00	00: no special function; 01: opening photocell C4 programmed for pedestrian crossing; 02: industrial;	
n	0	Programming lock key Be sure to remember any key used, for future access to the programming	0	0, 1	0000	The preset option is 0000 (no key). If any figure is changed, this is considered key. Select the required key (starting with D1) using UP and DOWN. Press ESC to cancel or ENTER to confirm and move to D2, and so on.
	1	Total operations completed	X	X		Indicates the hundreds of cycles completed (for example, 68 indicates 6800 cycles completed)
	2	Partial operations completed	X	X		Indicates the hundreds of cycles completed. It can be reset by pressing ST1, ST2 and ENTER simultaneously.
	3	Restore to default values, operation, radio and configuration	r	5		With the display showing n3r5 (with 3 flashing), press ENTER and b0rr will flash. On pressing ENTER, D1 shows n flashing and all programming menu values are returned to default
t	0	FTP communication	0	n		Immediate communication with the server
	1	GSM signal strength	X	X		Indicates signal strength