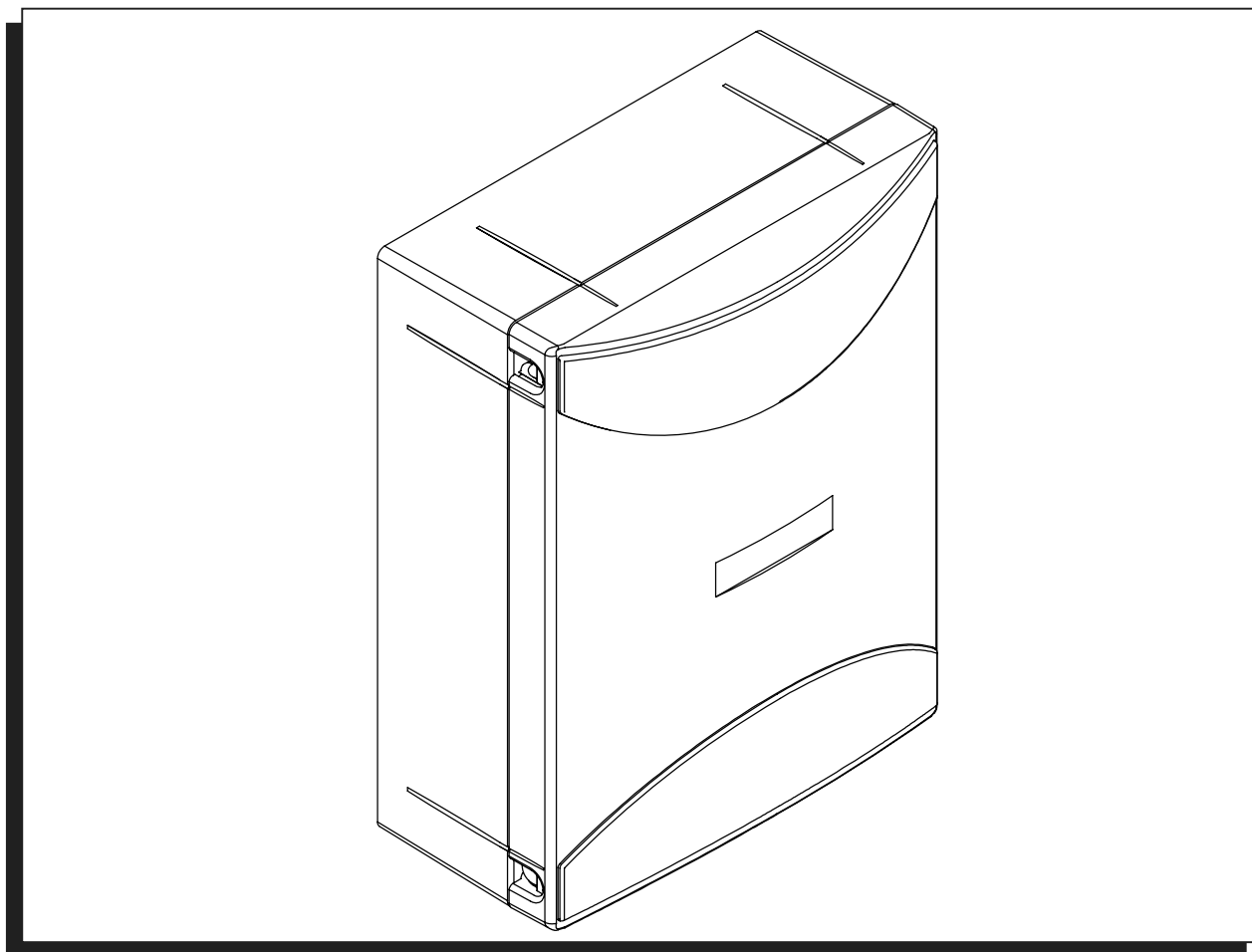


CENTRALE DI COMANDO
CONTROL UNIT
STEUEREINHEIT
CENTRALE DE COMMANDE
CENTRAL DE MANDO
CENTRALKA STEROWANIA



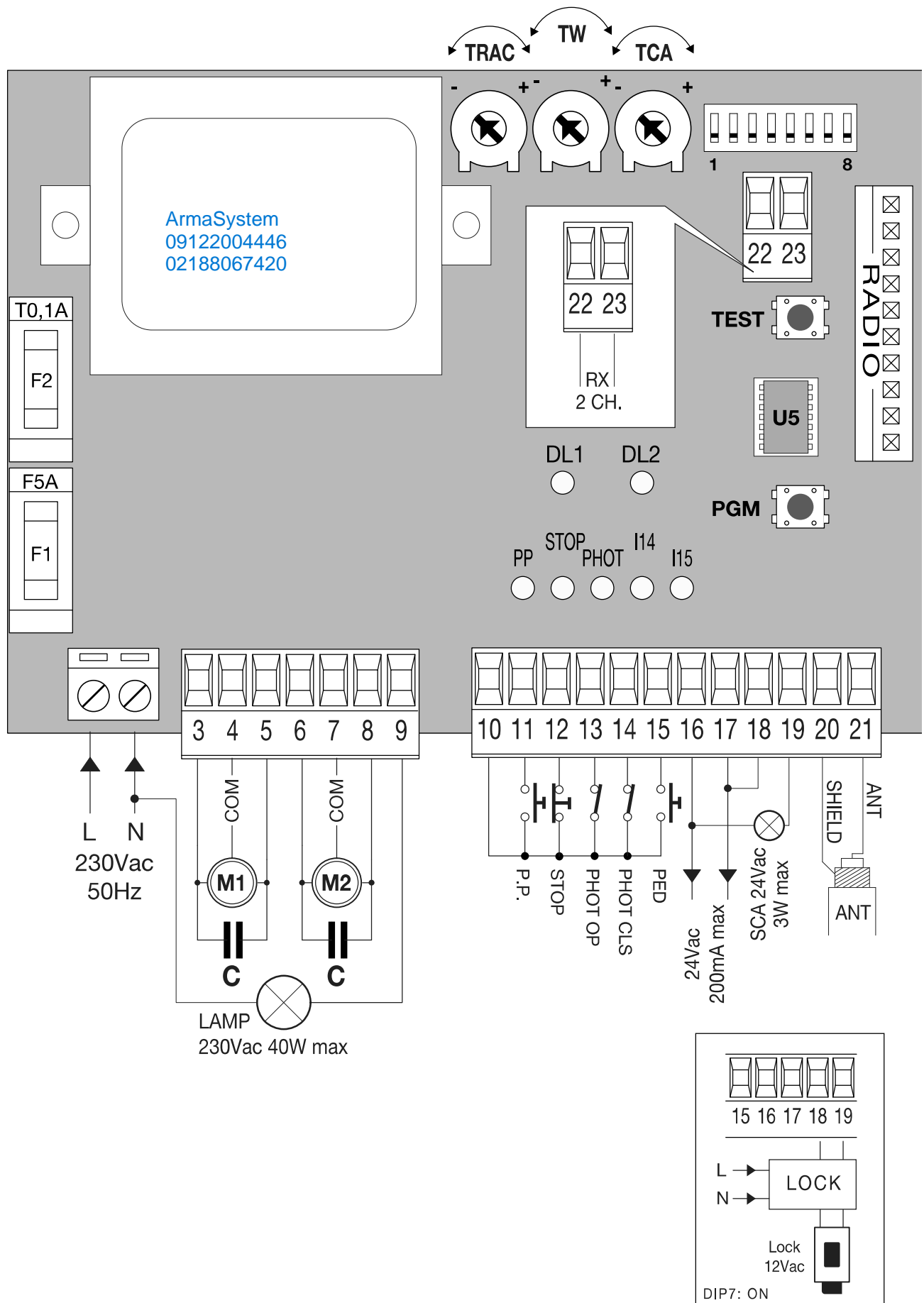
CIDRA-RE C

CIDRA-RI C



Manuale istruzioni
Operating instructions
Betriebsanleitung
Livret d'instructions
Manual de instrucciones
Książeczka z instrukcjami





CE Declaration of Conformity

Declaration in accordance with Directives 2004/108/CE (EMC); 2006/95/CE (LVD)

The Manufacturer: **Automatismi CAB Srl**

Address: **Via della Tecnica, 10 (z.i.) - 36010 Velo d'Astico (VI) - Italy**

Declares that the product:

Control box for 1 or 2 230V AC motors, model:

CIDRA RI-C

conforms with the requirements of the following EU Directives:

• **DIRECTIVE 2004/108/CE OF THE EUROPEAN PARLIAMENT AND COUNCIL**, 15 December 2004, in relation to the harmonisation of the legislation of member states regarding electromagnetic compatibility, in abrogation of Directive 89/336/CEE, per the following harmonised standards:

EN 61000-6-2:2005, EN 61000-6-3:2007

• **DIRECTIVE 2006/95/CE OF THE EUROPEAN PARLIAMENT AND COUNCIL**, 12 December 2006, in relation to the harmonisation of the legislation of member states regarding electrical material intended to be used within certain voltage ranges, per the following harmonised standards:

EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 + A13:2008; EN 60335-1-103:2003

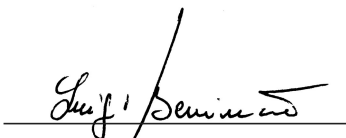
as applicable:

• **DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND COUNCIL**, 9 March 1999 in relation to radio equipment and telecommunications terminals and the mutual recognition of their conformity, per the following harmonised standards:

ETSI EN 301 489-3 V1.4.1 (2002) + ETSI EN 301 489-1 V1.4.1 (2002) + ETSI EN 300 220-3 V1.1.1 (2000) + EN 60950-1 (2001)

Benincà Luigi, Legal representative.

Velo d'Astico, 02/11/2010



CIDRA Control Unit

The **CIDRA** control unit can be used to control 1 or 2 motor, with power not exceeding 500W+500W.

GENERAL WARNINGS

- The wire connections and the operating logic should be in compliance with regulations in force.
- The cables featuring different voltage should be physically separated, or adequately insulated by an additional insulation of at least 1 mm.
- The cables should be further fastened in proximity to the terminals.
- Check all connections before powering the unit.
- Check that setting of the Dip-Switches are the required ones.
- Normally Closed inputs which are not in use should be short-circuited.

CAUTION

The CIDRA control unit is not provided with electronic regulation of the motor torque.

Therefore, it should be used only with actuators complete with torque regulation by means of mechanical clutch or similar devices.

INPUT/OUTPUT FUNCTIONS

Terminal No.	Function	Description
L-N	Power supply	Input, 230VAC 50Hz (L-Phase/N-Neutral)
3-4-5	Motor 1	Connection to motor 1 : (3-move/4-Com/5-move) - delay in closing phase. Should one single motor be used, connect Motor 1 output and adjust TRAC to the minimum value.
6-7-8	Motor 2	Connection to motor 2 : (6-marcia/7-Com/8-marcia) - delayed in the opening phase.
N-9	LAMP	Output, connection of Flashing light 230 Vac 40W max.
10	COM	Common, for all control inputs.
11	Step-by-Step	Input, step-by-step push button (N.O. contact)

12	STOP	Input, STOP push button (N.C. contact)
13	PHOT OP	Input, connection of safety devices, N.C. contact (e.g. photocells). In the opening phase: the opening of the NC contact causes the stopping of the gate. The latter can be reopened only after removal of the obstacles. In the closing phase: the opening of the NC contact causes the stopping of the gate.
14	PHOT CLS	Input, connection of safety devices, N.C. contact (e.g. photocells). In the opening phase: The opening of the NC contact has no effect on operation. In the closing phase: The opening of the NC contact during closure, caused the stopping and immediate re-opening of the gate.
15	PED	Input, pedestrian push button (N.O.) Its activation is on the Motor M1 Output for the time preset by trimmer TL.
16-17	24 Vac	Output: power supply of accessories, 24Vac/200mA max.
18-19	SCA/Lock	Voltage-free contact. Uoutput, configuration by means of Dip-switch 7. DIP7 OFF: Open gate LED connection , 24 Vac/3W max. DIP7 ON: Connection to optional Lock card to control the electric lock. Do not connect the electric lock directly to the output.
20-21	Aerial	Connection to the radio receiver card of the aerial (20-screen/21-signal).
22-23	RX 2ch.	Output, second radio channel of the receiver. N.O. voltage-free contact. Activated only in presence of insertable, two-channel receiver (CIDRA-RE C)
J3	Radio receiver	Insertable connector for two-channel radio receiver (CIDRA-RE C) Built-in radio receiver for the model CIDRA-RI C

To check wire connections:

- 1) Cut off power supply.
- 2) Manually release the gate wings, move them to about half-stroke and block them again.
- 3) Reset power supply.
- 4) Send a step-by-step control signal through "TEST" push button on the card or radio control.
- 5) The wings should open. If not, it is sufficient to invert the move wires of the motor (**3/5** for motor M1, and **6/8** for motor M2).
- 6) Adjust Times and Operating logic.

Trimmer functions

- TCA** It allows to adjust the automatic closure time. Check **Dip-Switch N°1 is On**.
The adjustment ranges from **1s** minimum to **180s** maximum.
- TL** It allows to adjust the maximum time of the opening and closing operation.
It should be preset to about **4s** more than the actual operating time of the automatic system.
The adjustment ranges from **3 s** minimum to **90 s** maximum.
- TRAC** It allows adjustment of the delay time with which motor 1 starts the closing operation with respect to motor 2.
The adjustment ranges from. 1s minimum to 30s maximum. In the opening phase, the delay time between the motors is 2s.

Dip-Switch functions

- DIP 1 TCA** The automatic closure is enabled or disabled.
Off: disabled automatic closure
On: enabled automatic closure
- DIP 2 COND** The multi-flat function is enabled or disabled.
Off: disabled multi-flat function.
On: enabled multi-flat function. The P.P. (Step-by-step) impulse or the impulse of the transmitter have no effect in the opening phase.
- DIP 3 P.P. Mod** The operating mode of the "P.P. (Step-by-Step) Push button" and of the transmitter are selected.
Off: Operation: OPEN > STOP > CLOSE > STOP >
On: Operation : OPEN > CLOSE > OPEN >
- DIP 4 CLS** The rapid closure is enabled or disabled.
Off: disabled rapid closure
On: enabled rapid closure. The intervention of the photocells reduces the TCA time to 3s. This function should be used to keep the gate open only for the time required for a vehicle to pass through. The Dip-switch 1: "TCA" must be ON.

- DIP 5 “Prelam.”** Forewarning flashing light enabled or disabled
 Off: disabled forewarning flashing light
 On: enabled forewarning flashing light. The flashing light is activated 3 s before the starting of the motor.
- DIP 6 BLC** The lock function is enabled or disabled. This is recommended for oil-hydraulic motors in order to keep the wing resting on the mechanical stop.
 Off: disabled function of lock maintenance.
 On: enabled function of lock maintenance. Every 60 min the control unit carries out a closing operation of about 3s to keep the gate wing resting on the stop.
- DIP 7 SCA/LOCK** The operating mode of the terminals 18/19 output is selected.
 Off: Output, open gate LED
 On: Output, impulse for the control of the Lock card for electric lock.
- DIP 8 RADIO** The programmable code transmitters are enabled or disabled (Not used by CIDRA-RE C).
 On: Radio receiver enabled only for variable code transmitters (rolling-code).
 Off: Receiver enabled for variable code transmitters (rolling-code) and programmable code (self-learning and Dip/switch) .

LED Diagnostics

The control unit has a series of self-diagnostics LED's which allow to check all functions:

- LED PP It switches on when the Step-by-Step push button is pressed
 LED STOP It switches off when the STOP push button is pressed
 LED PHOT It switches off when the opening photocells are not aligned or if obstacles are present
 LED I14 It switches off when the closing photocells are not aligned or if obstacles are present
 LED I15 It switches on when the pedestrian button is activated
 LED DL1 Green LED: It indicates the status of the gate:
 Flashing LED : Unit powered by mains power supply and motors stopped
 LED Off: Motors in opening phase
 LED On : Motors in closing phase
 LED DL2 Red LED: Used only for model CIDRA-RI (see radio configuration)

Built-in receiver configuration (ONLY CIDRA-RI C)

The CIDRA-RI C control unit is equipped with an incorporated radio module to receive signals from both fixed code and variable code remote controls (see functions of Dip-switch 8), with frequency of 433.92MHz.

To use a remote control, its code should be copied first. The memorization procedure is shown hereunder. The device is able to store up to 64 different codes in memory.

Normally the DL2 LED flashes with a 3-second pause in order to show that the unit is powered and the micro-processor is working regularly.

To memorize a new transmitter with activation of the P.P. (step-by-step) function

- Press PGM button once for 1s, the DL2 LED starts flashing with 1s pause.
- Within 10s, press the transmitter push button which should be stored in memory with P.P. function.

To store a new transmitter code with pedestrian activation

- Press the PGM twice, each time for at least 1 second, the DL2 LED switches on with fixed light.
- Within 10s press the transmitter push button which should be memorized with pedestrian function.

To exit the programming mode, wait for 10s or press the PGM button for 1 second, the DL2 LED flashes again with a 3-second pause.

To delete all transmitter codes from memory

- Keep the PGM push button pressed for 15 seconds, the DL2 LED starts flashing rapidly and switches off at completion of erasing.
- Release the PGM push button, the memory is now deleted and the DL2 led starts flashing regularly again with a 3-second pause.

NOTE:

The transmitters are stored in a EPROM (U5) memory which can be extracted from the control unit and inserted in a new CIDRA-RI C control unit, should the control unit be replaced.

For safety reasons, the transmitter codes cannot be stored in memory during the motor opening/closing phases.

If, when entering the copying procedure of transmitters, the DL2 LED shows a long flash and switches off, this means either the receiver memory is full and no further transmitter codes can be stored in memory, or the transmitter used is not compatible.