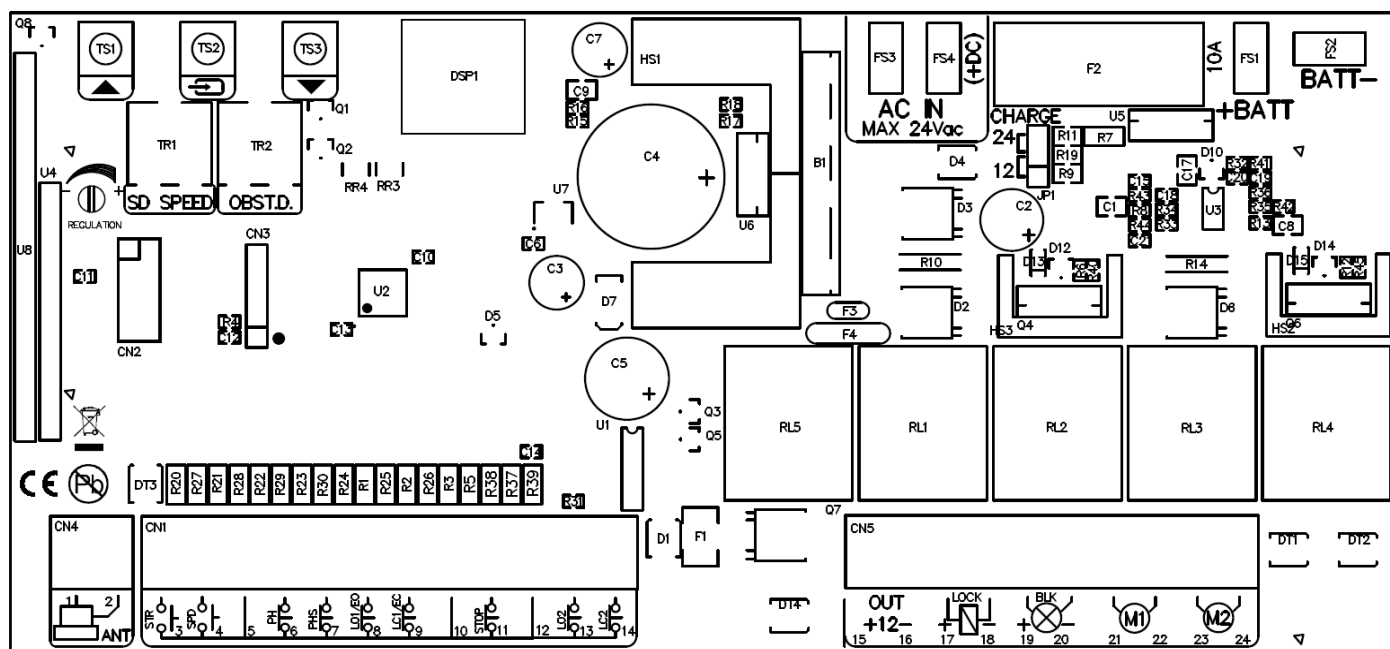


# QK-CE24BATRA

User Manual

Control board for 2 24V gearmotors

V01



**Important:** Read carefully this manual before the installation. This manual is integral part of your product, keep it for reference.

**Warnings:** First of all verify that this product is suitable for the installation. Read carefully technical characteristic before the installation.

Installation of this control unit must be properly done by qualified installers, following rules and regulations of installation country.

It's mandatory to do periodic maintenance each 6 month. Maintenance or repairing must be done by qualified Technicians. Turn power off before maintenance or repairing.

This device is intended for gate automation, any other applications is strongly advised.

Not respecting of rules may cause serious damage to peoples, animals, things. Manufacturer discharges all responsibility for missed respect of rules.

Don't let this control unit unattended or where children can reach

**Preliminary checking:** Before installing this control unit, verify that all the connected devices respect the technical characteristics mentioned in the table which follows. Verify that a working and suitable life switch is installed upline the installation. Verify that cables composing the installation, are suitable for it.

## Technical characteristics

Power Supply	20-24Vac/100-200VA
Max. Current output (13-15)	250mA
Embedded Battery charger	24V 100mA
Max motor current	8A
Max flashing light current	1A
Max electriclock current	2A
Operating temperature range	-30 +70°C
Backup battery	(2x) 12V 1.3Ah
Max radio codes	250 codes

## Pursuant to legislation for the implementation of Directive 2012/19/ EU on “Waste electrical and electronic equipment (WEEE)”

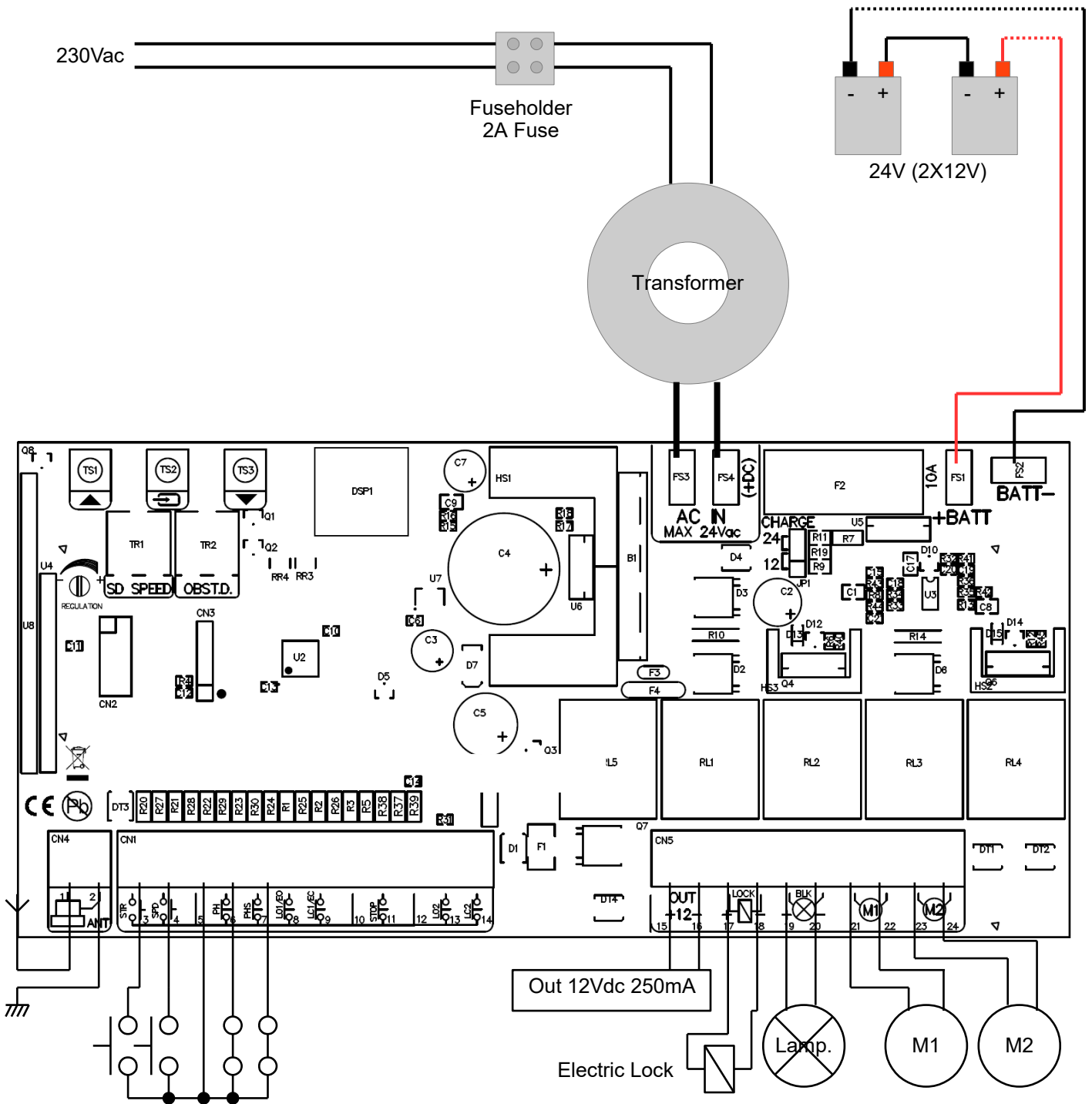


It is forbidden to dispose of electrical items and electronic equipment as municipal waste, as evidenced also by the symbol shown on the product and/or its packaging.

These forms of waste are subject to separate collections organised by municipal authorities, or may be returned to the retailer when buying a new appliance of the same type. Improper disposal or misuse of such equipment or its component parts can damage the environment and human health due to the presence of hazardous substances. Illegal disposal of this waste is forbidden of the legislation currently in force.



# Wiring Main functions



- 1 Antenna
- 2 Antenna's shield
- 3 Start input (NO)  
*It completely opens the gate*
- 4 Pedestrian start in. (NO)  
*It opens just motor 2*
- 5 Common
- 6 Closing photocell input (NC)  
*During pause: Reloads pause*  
*During closing: Reverses motors direction*

7	Opening photocell input (NC) / Detect input (see Advanced Menu) <i>During pause: Reloads pause</i> <i>During closing: Reverses motors direction</i> <i>During opening: stops the motors and waits till contact returns closed.</i>
8	Opening safety edge input / Opening Limit switch slave motor (1) NC (8K2 ohm/NC see $\overline{E}\square$ parameter in advanced menu) <i>If not used left unconnected.</i>
9	Closing safety edge input / Closing Limit switch slave motor (1) NC (8K2 ohm/NC see $\overline{E}\square$ parameter in advanced menu) <i>If not used left unconnected.</i>
10	Common
11	Stop input (NC) It always stops motors and blocks control unit activity.
12	Common
13	Opening Limit switch master motor (2) NC . <i>Leaving unconnected both opening and closing limitswitched (2), they get automatically disabled.</i>
14	Closing Limit switch master motor (2) NC . <i>Leaving unconnected both opening and closing limitswitched (2), they get automatically disabled.</i>
15-16	Accessories power supply output 12Vdc 250mA
17-18	Electric lock output
19-20	Flashing light output 24V 1A - If mains fails, it flashes very slowly
21-22	Output motor 1 8A (slave)
23-24	Output motor 2 8A (master - this is the motor used in single leaf mode)
TR1	Slowdown speed trimmer
TR2	Obstacle detection sensibility trimmer
TS1- TS3	Buttons up/down
TS2	Enter button
DSP	Display
FS3- FS4	Transformer input 20-24Vac / 100-200VA
F2	Battery fuse 10A Fast
FS1- FS2	Backup battery input 24Vdc
JP1	Backup battery voltage selector 12/24V - Must be set to 24V when used with Quiko standard products

## Inputs status

When the control unit is in standby, user can read inputs status on display:

-- : No inputs active

$\square P$  : Stop input active

$\overline{P}\square$  : Opening photocell input active

$\overline{E}\square$  : Opening safety edge input active

$\overline{E}\square$  : Closing safety edge input active

$\overline{P}\square$  : Closing Photocells input active

$\square \overline{E}$  : Start input active

$\overline{P}\square$  : Pedestrian input active

$\square \overline{P}$  : Open input active

$\square \overline{L}$  : Close input active

$\square$  : Opening limitswitch input motor 1 (slave) active

$\square$  : Closing limitswitch input motor 1 (slave) active

$\square$  : Opening limitswitch input motor 2 (master) active

$\square$  : Closing limitswitch input motor 2 (master) active

During pause, the display shows the countdown to closing in seconds

## Trimmers setting

**Slowdown speed trimmer** regulates the slowdown speed. Do not set speed too low (less than 10cm/sec on the wing edge) to avoid that gate stops in cold conditions.

**Obstacle sensibility trimmer** fine tunes the obstacle detection level learned by the control unit during working times programming. This fine regulation must be done after working times learning.

Normally the trimmer should be in middle position, in this position it should be possible to respect rules in most of the installations. If there is the need to resolve problems related to norms or environmental situations (ex. strong wind) it is possible to regulate this trimmer increasing or decreasing sensibility.



## Quick programming

To quickly program the working times, position both leaves fully open, then press and hold the UP arrow key until **RU** appears on the display. The control unit will carry out a series of tests and will automatically learn the working times. The procedure is completed when the flashing light goes out.

## Quick code learning

Briefly press the DOWN key, "**CL**" will appear on the display. Transmit with the remote control to be learned. By pressing the DOWN key several times it is possible to select the remaining channels (**C1**, **C2**, **C4**, **C5**)

## Quickly clearing the code memory

Press and hold the DOWN button until "**CF**" appears on the display (about 5 seconds), then release the button. All stored codes are now cleared.

## Transmitter self-learning

It is possible to enter transmitters remotely without entering the basic menu. To enter a code, press the transmitter with the code to be memorized (new) 3 times, on each transmission take at least 1 second of pause. Successively transmit 3 times with a transmitter already stored and then again once with the new one. When the operation is completed successfully the flashing light turns on for a short period. **Warning:** the function must be enabled, refer to the "advanced menu" paragraph - enabling remote code learning. The new code is learned on the same channel as the code already entered (for example: **C1** - Start/Open).

## Control Board settings

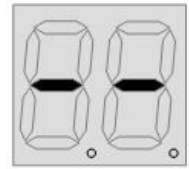
### Base Menu

Push enter once for at least 1 second to enter base menu.

oL is on the display, with up/down it's possible to select other functions of this menu. To exit this menu select EH or push up and down together.

After 20 seconds without actions, the control unit exits itself from this menu.

To exit from a submenu, select EH or push Up and Down at the same time.



Push  
Enter  
Briefly

Display	Function	Param.	Description	Default
oL	Operating logic	St At cd oc oA	Steb by steb mode: inputs 3 & 4 work as Start and Pedestrian start Steb by steb mode with autoclosing: inputs 3 & 4 work as Start and Pedestrian Condominium mode: inputs 3 & 4 work as Start and Pedestrian Open/Close mode: inputs 3 & 4 work as Open and close Open/Close mode with auto closing: inputs 3 & 4 work as Open and close	St
Lc	Learning / removing transmitters codes	rL rS rS rA	Learn Start / Open Only (depending on oL) Learn Pedestrian / Close Only (depending on oL) Learn Stop Learn Fast Closure Start/Open Erase all the stored radio codes, confirm selecting yS To delete just one code, select rA and transmit the code to be removed, on the display is shown "oA" for a while if operation is done correctly	-
Lt	Working times learning	RU n	<b>Attention:</b> before starting the learning procedure, the gate must be positioned completely open if you intend to use the automatic procedure, completely closed if you want to use the manual procedure. Use the dN "dead man" function to achieve this. It is possible to use a shortcut to program the working time automatically, see paragraph (Quick programming). Select the Lt "working time learning" and press Enter, then with the Up / Down keys select the learning mode.  <b>RU Automatic working times learning</b> (set the gate fully open before starting this procedure). <b>Attention:</b> in this phase the safety devices are not active. The gate closes by itself without performing the slowdown, in this phase the working times and consumption values for the obstacle detection sensor are learned. If only motor 2 is connected, the control board is set in "single leaf" mode.  <b>n Manual working times learning</b> (set the gate fully closed before starting this procedure) <b>Attention:</b> To carry out this procedure it is useful to have at least one transmitter memorized. In this phase the safety devices are not active. First of all, the gate starts by opening, in this phase the operator can act on the trimmer 2 to adjust the slowdown speed as desired. When both gate leaves are in fully open position, press the enter key again or transmit a memorized remote control. In this phase the control unit performs a series of motor consumption tests to establish the obstacle detection threshold. When the test is completed, n i appears on the display. In the following phase, the enter key or a memorized radio control code determine in sequence: the start of motor 1, start of motor 2, slow down of motor 1, slow down of motor 2, stop of motor 1, stop of motor 2. If the installation is with single leaf , program only the times of an engine.	-
SP	Set automatic closing time	0- 99	Sets the automatic closing time in seconds.	10

**Base Menu (Continue)**

Display	Function	Param.	Description	Default
F5	Set standard speed	3- 10	Sets the speed during standard working time in %. 3 = 30%   10 = 100%	10
dñ	Dead man mode	o   c   oñ   cñ	Opens motor 1 Closes motor 1 Opens motor 2 Closes motor 2	-
EH	Esci	-	Exits from the base menu	-

**Advanced Menu**

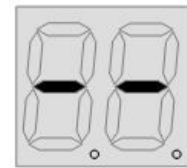
Push enter once for at least 4 seconds to Enter the advanced menu.

oL is on the display, with Up/Down it's possible to select other functions of this menu.

To exit this menu select EH or push Up and Down at the same time.

After 20 seconds without actions, the control unit exits itself from this menu.

To exit from a submenu, select EH or push Up and Down at the same time.



Press Enter For 4 sec.



Display	Function	Param.	Description	Default
eñ	Working Times Menu	e 1 s 1 e 2 s 2 e 3 d o d c e L  e n	Total working time of motor 1 (standard + slowdown) Standard working time of motor 1 Total working time of motor 2 (standard + slowdown) Standard working time of motor 2 Pedestrian opening time Displacement time in opening Displacement time in closing Electric lock activation time. If set to 0, the electric lock output works as open gate output (ON while the gate is open)  Fast closure delay (in tenths of seconds; 20 = 2 seconds)	25 22 25 22 = e 2 02 25 02  2
5G	Single leaf mode	45 n e	Single leaf mode activated Single leaf mode NOT activated	n e
d2	Loads factory defaults	45 n e	By confirming with 45, the control unit is reset to the factory programming. Attention, this procedure does not delete the stored remote controls.	-
r c	Final release	45 n e	If enabled, at the end of the manouvre the motor changes direction for a brief time to better meet European Safety standards. Works in both opening and closing.	n e
Rr	Transmitter self-learning	45 n e	Transmitter self-learning enabled Transmitter self-learning disabled	n e
c5	Kickback function in opening and closing	45 n e	If enabled, a ramp pulse is executed to facilitate the locking and unlocking of the electric lock when it is installed.	n e
55	Soft start	45 n e	Soft start enabled Soft start disabled	45
5L	Limit switches in series to the motor mode	45 n e	To be enabled in presence of limitswitches in series to the motor (they open the circuit)	n e

## Advanced Menu (Continue)

Display	Function	Param.	Description	Default
rñ	Radio mode	ib  4b	Each channel of a is stored separately. The installer can choose between: c 1 Start/Open, c 2 Pedestrian/Close, c 4 Stop, c 5 Fast Closure Start/Open).  Storing a single remote button, all of the other buttons get automatically stored (each one with a different function).	ib
LN	Lock mode	YS nE	Magnetic lock mode Electric lock mode	nE
Eo	Opening safety edge mode	dS no nC An LS EH	Disabled Normally open Normally closed Analogic (8K2). Opening limit switch motor 1 (slave) Exit	dS
Ec	Closing safety edge mode	dS no nC An LS EH	Disabled Normally open Normally closed Analogic (8K2). Closing limit switch motor 1 (slave) Exit	dS
Pc	Closing photocell mode	nC no	Normally closed Normally open <b>Attention:</b> In various countries the laws in force require that the safety systems must have NC contacts. Check the laws in force in the country of installation before changing this parameter.	nC
SP	Stop input mode	nC no	Normally closed Normally open. <b>Attention:</b> In various countries the laws in force require that the safety systems must have NC contacts. Check the laws in force in the country of installation before changing this parameter.	nC
SF	Opening photocell mode	PS dE	Opening photocell mode (photocell that also intervenes in opening) Detect mode (photocell that determines immediate re-closing after the passage of the car)	dE
LS	Limit switches mode	nC no	Normally closed Normally open	nC
BL	Blinker mode	YS nE L1 L2	Flashing Fixed light Flashing for LEDKIT 1: Slow when the barrier is stationary, fast with the barrier in motion Flashing for LEDKIT 2: steady light when the barrier is stationary, fast flashing with the barrier in motion	YS
cn	Cycle counter	-	Shows the cycle count in 3 groups of 2 digits. Example: 123456 is shown as: 12 - 34 - 56	-
EH	Esci	-	Exits from advanced menu	-



# EU Declaration of Conformity

and Declaration of Incorporation of "quasi-machines" (pursuant to the Machinery Directive 2006/42/CE, Att.II, B)



<b>Company name:</b>	<b>QUIKO</b>
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declare that the DoC is issued under our sole responsibility and belongs to the following product:

<b>Apparatus model/Product:</b>	<b>QK-CE24BATRA</b>
<b>Type:</b>	CONTROL BOARD INCLUDING RADIO MODULE FOR SWING GATE OPERATORS (24V)


The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

- Directive 2014/53/EU (RED Directive)
- Directive 2011/65/EU (RoHS)

The following harmonised standards and technical specifications have been applied:

Title:	Date of standard/specification
EN 61000-6-2	2005 + AC:2005
EN 61000-6-3	2007 + A1:2011+AC:2012,
EN 301 489-1 V2.2.3	2019
EN 301 489-3 V2.1.1	2017
EN 60335-2-103	2015
EN 12453	2017
EN 62479	2010
EN 300 220-2 V3.1.1	2017
EN IEC 63000	2018

## Additional information

<b>Signed for and on behalf of:</b>		
<b>Revision:</b>	<b>Place and date of issue:</b>	<b>Name, function, signature</b>
01.00	Sossano, 01/10/2022	(Borinato Luca, Legal Officer)
		







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