

# ikore

## USER's MANUAL

# 01- SAFETY INSTRUCTIONS



These instructions must be read carefully in order to install and use the set properly and to keep it in perfect working condition and to reduce the risks of misuse.

**Do not use this set on machines in potentially explosive atmospheres, except the models certified ATEX/RATEX to work in that conditions.**

- a) Strictly adhere to the instructions for installation contained in this manual.
- b) Make sure that professional and competent personnel carry out the installation.
- c) Ensure that all site and prevailing safety regulations are fully respected.
- d) Make sure that this manual is permanently available to the operator and maintenance personnel.
- e) Keep the transmitter out of reach of unauthorised personnel.
- g) On starting each working day, check to make sure that the STOP button and other safety measures are working.
- h) When in doubt, press the STOP button.
- i) Whenever several sets have been installed, make sure the transmitter you are going to use is the right one. Identify the machine controlled on the label for this purpose on the transmitter or by using the display (in case it has one).
- j) Service the equipment periodically.
- k) When carrying out repairs, only use spare parts supplied by IKUSI dealers.

## WARNING

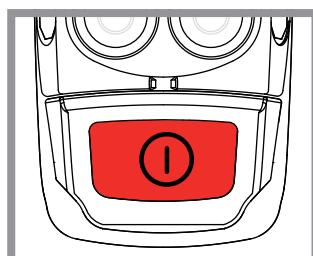
- The equipment must be operated by qualified personnel.
- After use, never leave the equipment ON (one or several transmitters). Always set the STOP button to switch off position of the equipment to avoid accidentally to activate manoeuvres –specially in crane maintenance purposes-.
- Do not use the set when visibility is limited.
- Avoid knocking or dropping the set.
- Do not use the set if failure is detected.

## REMEMBER

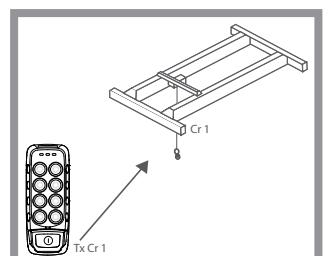
Changes or modifications not expressly approved by IKUSI could void the user's authority to operate this equipment.



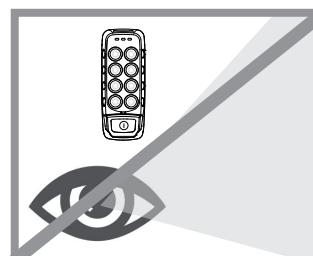
Remove the EEPROM in order to disable the transmitter



When in doubt, press the STOP button



Make sure the transmitter works with the machine to be handled



Do not use the set when visibility is limited



Avoid knocking or dropping the set

## FCC/ISED Regulatory notices

### Modification statement

IKUSI ELECTRONICA, S.L. has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

IKUSI ELECTRONICA, S.L. n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

### Interference statement (if it is not placed in the device)

This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### Wireless notice

This device complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme à l'exposition aux radiations FCC / ISED définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) et RSS-102 de la fréquence radio (RF) ISED règles d'exposition.

*L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur. C*

### FCC Class B digital device notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

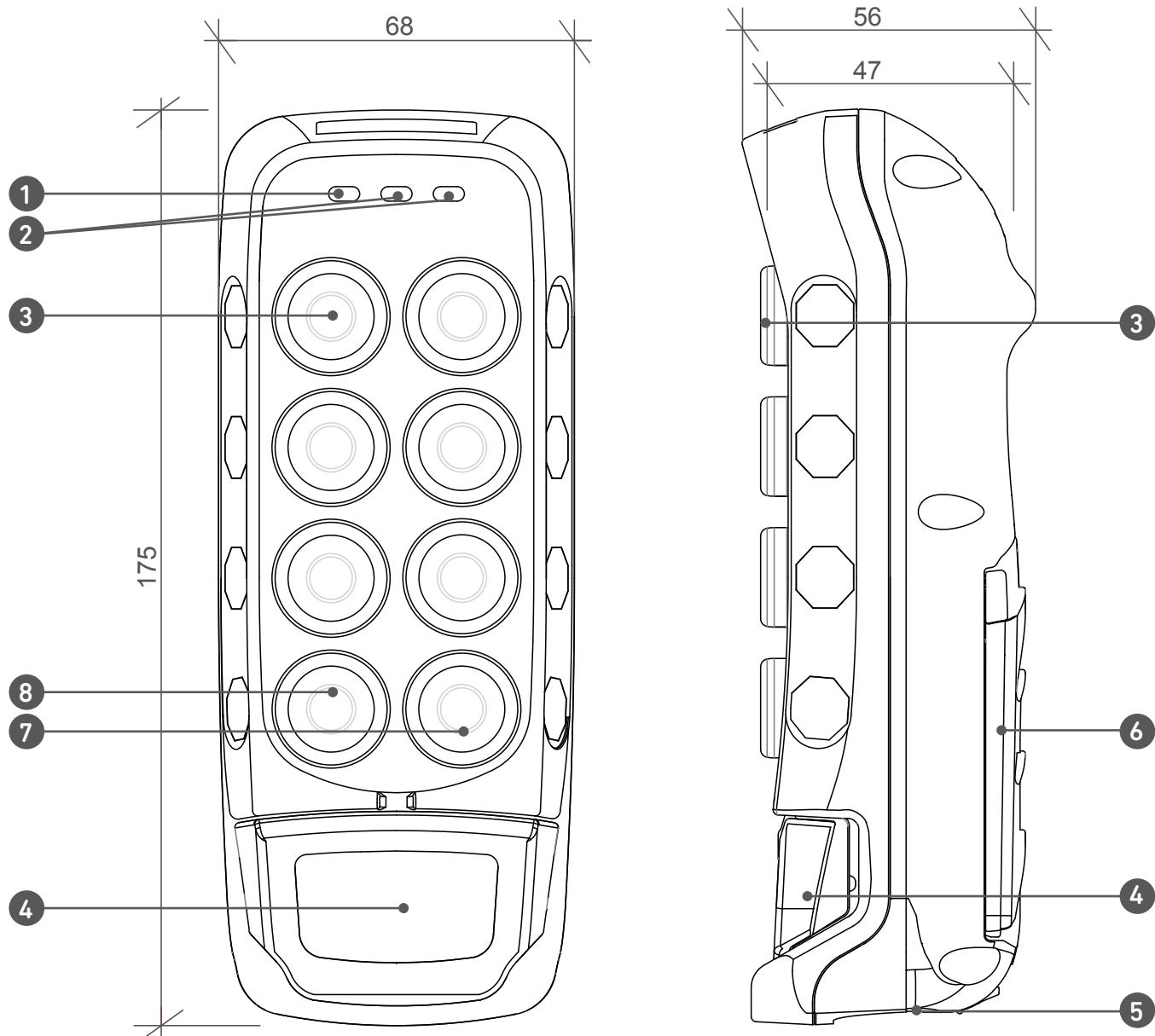
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAN ICES-3 (B) / NMB-3 (B)**

This Class B digital apparatus complies with Canadian ICES-003.

*Cet appareil numérique de classe B est conforme à la norme canadienne ICES-003.*

## 02- TECHNICAL DESCRIPTION



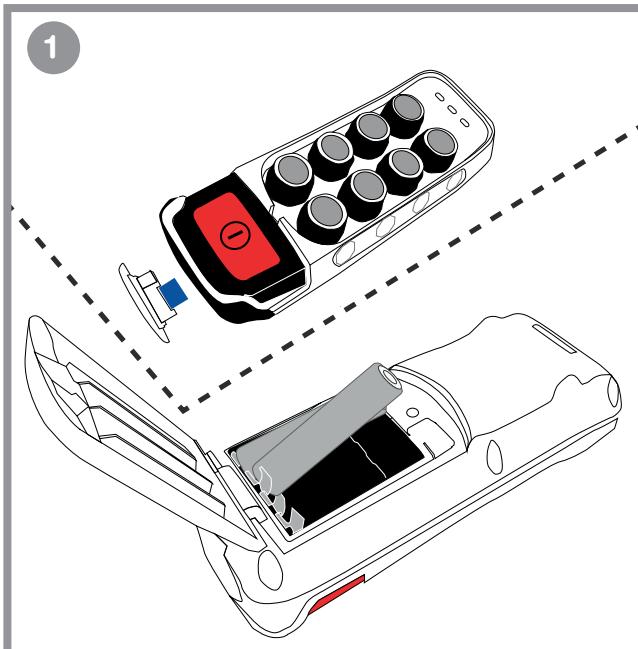
- 1.- Status LED
- 2.- Crane selection LED
- 3.- Manoeuvre pushbutton
- 4.- STOP button
- 5.- External and extractable EPROM module
- 6.- Alkaline batteries
- 7.- START pushbutton
- 8.- Hoist selection pushbutton

## SPECIFICATIONS

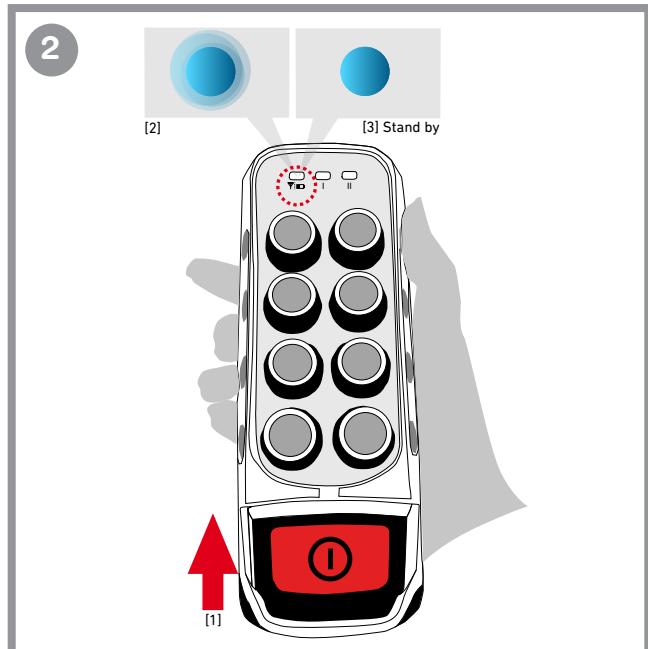
IKORE	
STOP Function	Cat. 3 - Pld
Ingress Protection	IP65 / NEMA 4
Anti condensation system	na.
Frequency Band	2,4 GHz
Main Mechanisms (Max. #)	Pulador (6)
Auxiliary Mechanisms	na.
Removable EEPROM	Externa
Battery Model	4 Pilas AAA
Weight (with Battery) Grams	315 g
Harness	Tira elástica / Bandolera
Display	na.
Cable Connection	na.
Range Limiter	na.
Associated receivers	R11
Temperature range	-20°C +70°C
Relative Humidity	Máx. 95% (without condensation)
Storage temperatura range	(24h) -25°C / +75°C (-13F/167°F)
Storage temperatura range —long periods-	-25°C / +55°C (-13F / 131 °F)

## 03- START UP

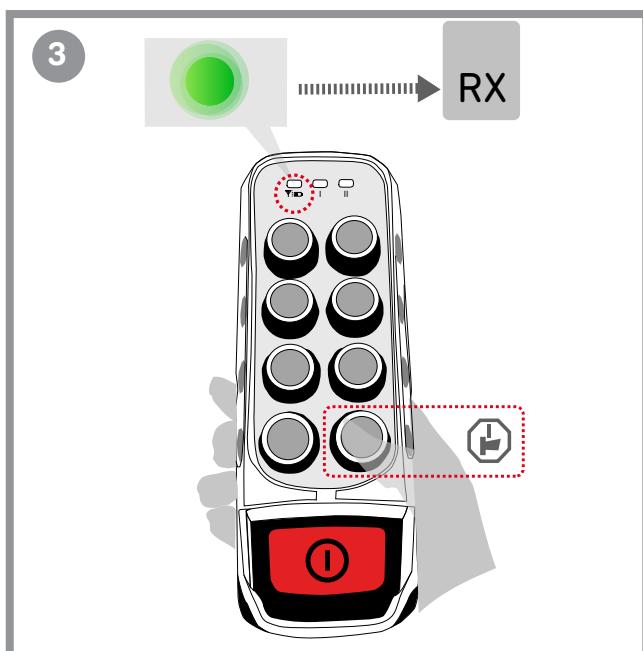
In order to turn the transmitter ON (OPERATION mode), please follow the next steps:



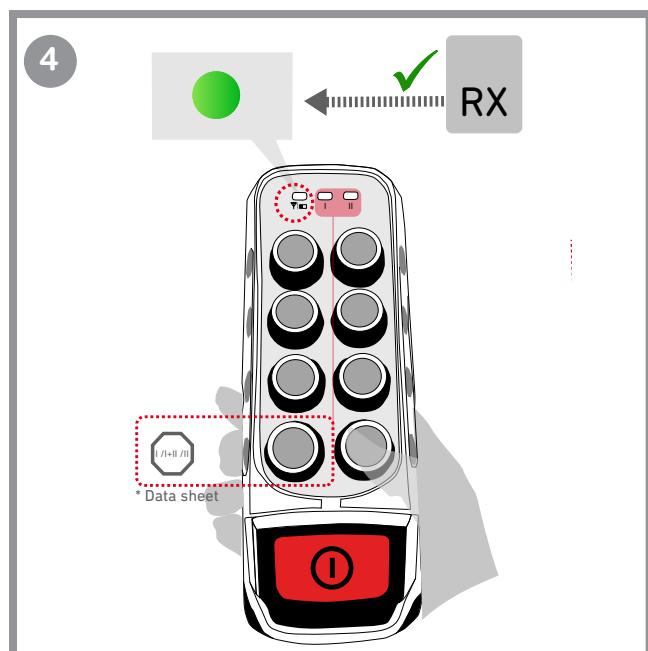
1- Place a the EEPROM and the charged alkaline batteries.



2- Push and pull out the STOP button. The status LED will blink in blue until reach the Stand-by mode and will turn in fixed blue.



3- Press the start button. The status LED will blink in green until the transmitter is linked with the receiver.



4- When the receiver confirms the link, the status LED will turn fixed green. The system will be fully operational in order to action any maneuvre.

When the systems controls two hoists, there will be a pushbutton for the selection of individual or joint control. I and II LEDs will show their selection.

## 04- MAINTENANCE

### RECOMMENDATIONS

This equipment is designed for use in an industrial environment. However, we recommend you follow the instructions below to extend the life span of your remote control set:

- Use the belt provided with the transmitter to prevent the transmitter from falling.
- Do not clean the transmitter with solvents or pressurised water. Use a damp cloth or soft brush.
- Check the pushbuttons. In case of signs of deterioration, please contact the Authorized Technical Service.
- Check if the battery contacts are correct.
- Systems are supplied with a pack of AAA alkaline batteries. AAA alkaline batteries or rechargeable batteries can be used (the critic battery period it is not guaranteed with these ones).
- It is recommended the use of new batteries.



## 05- TROUBLESHOOTING

The transmitter has status monitoring LED's, which help to identify irregularities. The most common signals of the **Status LED** are contained in the tables below:

LED COLOUR / FREQUENCY	PULSE FREQUENCY	MEANING	ACTION
Blue / Fast pulses		Starting the system, establishing communication with radio and EEPROM.	Wait
Blue/ Continuous		Stand-by. Set up system, waiting user's action.	Press START to enter in Operation mode
Green / Fast pulses		Trying to link with the receiver and waiting its answer.	Wait
Green / Continuous		Working.	Operate
Green/ Slow pulses		Latency. If no action has been taken during a time.	Press START to return to Operation mode
Red / Slow pulses		EEPROM Error. EEPROM module mising or corrupt.	Check EEPROM and reprogram if necessary
Red / Double pulses		Radio Error. Radio communication error.	Replace transmitter
Red / Continuous		Activated maneuvre or harware failure if no order is active.	Release maneuvre or replace the transmitter
Orange / Slow pulses		Critic battery signal.	Replace batteries with charged ones.