





Revision history

Table of revisions

Date	Changed	Rev
February 2019	Rebranded to Danfoss Power Solutions	

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Safety instructions

IKARGO general safety

The following safety instructions must be read carefully in order to install and use the product properly and to keep it in perfect working condition and to reduce the risk of misuse.

Potential damage to operator and product.

Do not use this product on machines in potentially explosive atmospheres unless the model is ATEX/RATEX certified to do so.

- Strictly adhere to the installation instructions contained in this document.
- Make sure that professional and competent personnel carry out the installation.
- Ensure that all site and prevailing safety regulations are fully respected.
- Make sure that this document is permanently available to the operator and maintenance personnel.
- Keep the transmission key when the set is not in use.
- On starting each working day, check to make sure that the STOP button and other safety measures are working.
- When in doubt, press the STOP button.
- Whenever several sets have been installed, make sure the transmitter 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).
- Service the equipment periodically.
- When carrying out repairs, only use spare parts from Danfoss.

IKARGO safety warnings

Potential damage to operator and product.

Follow the guidelines below to reduce risk of injury to the operator and the product.

- Use the device with the manufacturer's battery and battery charger (if applicable).
- Only allow qualified personnel to operate the equipment.
- Always set the STOP button in the off position when not in use.
- Always press STOP before plugging in tether cable (if applicable).
- · Do not operate product when visibility is limited.
- Make sure product is compatible with the machine.
- Avoid knocking or dropping the product.
- Do not use the product if a failure is detected.

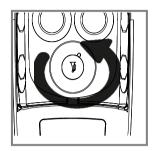
Changes or modifications not approved by Danfoss can void the user's authority to operate this product.

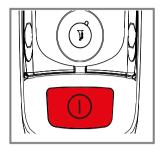
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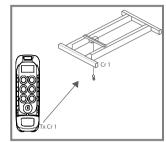


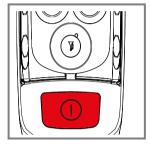
Safety instructions

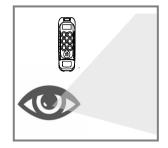
Quick reference precautions











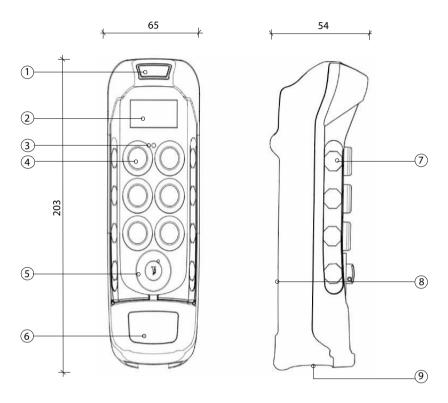




Technical description

IKARGO dimensions and identification

Dimensions in mm



- 1. Range limiter
- 2. RGB display
- 3. Status LED
- **4.** Maneuver push button
- **5.** Multi-key/START
- **6.** STOP button
- **7.** Movement pictogram housings
- **8.** BT11K battery housing
- **9.** Extractable EEPROM housing

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Technical description

IKARGO start up

In order to turn the transmitter on (OPERATION mode), follow the next steps.

1. Insert the charged BT11K battery model in the transmitter and ensure the EEPROM module is in place. The battery must be charged according to the charger manual's instruction.



2. Turn the multi-key from the "0" position to the "1" position.

The multi-key cannot be removed while in the "1" position.



3. Push and pull out the stop button.

The LED will blink in blue-green colors and the battery level will appear in the display. It is recommended to introduce the machine identifier (example: EOT crane number).



4. Press START with the multi-key until the radio link is performed.

The LED color will turn green to indicate that the transmitter and receiver link is confirmed. After confirmation, press the maneuver buttons to verify corresponding movements.





Maintenance

IKARGO maintenance tips

This product is designed for use in an industrial environment that may shorten the product's lifespan. Use these tips to maximize the lifespan of the product.

- Use the hook/belt provided with the transmitter to prevent the transmitter from falling
- Do not clean the transmitter with solvents or pressurized water; use a damp cloth or soft brush for cleaning
- If the push buttons show signs of deterioration, contact the Authorized Technical Service for repair
- Check if the battery contacts are correct, otherwise replace them.
- Ensure that the product is supplied with AAA alkaline batteries or has a rechargeable battery
- Be sure to recharge or replace battery regularly

Maintenance tips quick reference











IKARGO troubleshooting

The transmitter has status monitoring LED's which help identify irregularities. The most common signals are contained in the table below:

Color and frequency	Pulse frequency	Description	Action
Green continuous		Working	Operate
Green slow pulses		Latency; no action has been taken for some time	Press START to return to operation mode
Red slow pulses		Low battery signal	Replace or recharge battery
Red fast pulses		EEPROM module missing or corrupt	Check EEPROM and reprogram if necessary
Red double pulses		A maneuver is activated at transmitter start up process; may indicate hardware damage if no order is active	Release maneuver or replace transmitter if necessary
Red continuous		General hardware failure	Replace transmitter

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Charger and battery

BC70K and BT11K specifications

BC70K battery charger

Specification	Value
AC power supply	110-230V, 50/60 Hz, ± 10%, automatic switching
DC power supply, nominal	12-24V

BT11K battery

Specification	Value
Voltage	3.7V
Capacity	1130 mAh Li-ion
Charging temperature	0° C to 45° C
Discharge temperature	-20° C to 60° C
Charging mode	Fast (<2.5h) and intelligent
Weight	23g

Setting up the BC70K battery charger

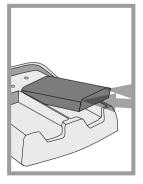
Use the information below to set up the BC70K battery charger.

The battery charger has two charging compartments that can simultaneously charge two BT11K batteries.

1. Connect the charge to a power source using the cable provided. The red LED will switch on if the charger is properly connected.



2. Place the batteries in the charger.



3. Optional: If charging two batteries, wait at least five seconds before inserting the second battery into the compartment.

Possible damage to battery! Be sure to charge batteries in environments with temperatures over 0° C.



Charger and battery

BC70K status LEDs

The BC70K has an LED for each compartment (BAT 1 and BAT 2) and a common indicator (POWER).

Green LED; pulsing (BAT 1 and BAT 2)

The battery is charging

Green LED; continuous (BAT 1 and BAT 2)

The battery is completely charged

Red LED; pulsing or continuous (BAT 1 and BAT 2) Battery charger fault

Red LED; continuous (POWER)Battery charger is properly connected to power

source

Remote control battery charging tips

The battery lifespan is estimated to be 500 recharging cycles and is largely dependent on the conditions of use.

To maximize the lifespan of the batteries and battery charger, follow these tips:

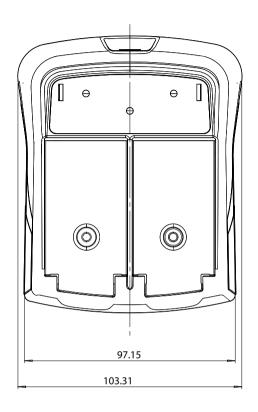
- · Do not recharge the battery until needed, as shown with slow, red LED pulse on the transmitter
- Always charge the batteries at temperatures between 0° and 45° C
- Do not leave the battery charger or batteries in direct sunlight
- · Charge batteries at least once every six months
- Avoid short circuits between the battery contacts; do not transport charged batteries in toolboxes or next to other metal objects
- Always keep contacts clean

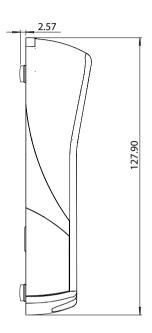


Charger and battery

BC70K battery charger dimensions

Dimensions in mm









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