






6 Maintenance

6.1 Precautions

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 strap 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.
-  Use and recharge the battery regularly.
-  Check every day that the STOP button is working.
-  Disconnect the receiver cables if soldering/welding work is going to be carried out on the crane.

6.2 Preventive maintenance

A few simple checks can show certain defects which can later be the cause of subsequent break-downs and which can be readily rectified. We recommend the following checks to be made from time to time:

Transmitter

- Check the transmitter's closing screws to make sure they are securely tightened.
- Check the rubber protection seals on the transmitter's command buttons from time to time. Replace them if they are found to have deteriorated. This will protect the unit's water tightness.
- Keep the battery contacts clean.

Receiver

- Check to make sure the cable fixture screws are tight.
- Check the contacts on the fuses and the fuse-holders.

Battery charger and batteries

- Keep all contacts clean.

6.3 Locating Break-downs

The transmitter and receiver both have status monitoring LEDs that help to identify irregularities. The most common signals are contained in the tables below:

6.3.1 Transmitter

LED	MEANS
Green double flashing	Transmitter ready for start-up
Solid green	Transmitter transmitting normally
Red flashing	Battery level low
Red double flashing	Transmitter cannot start up because a manoeuvre command is present
Solid red	Transmitter failure



6.3.2 Receiver

In WORKING mode, the 5 green LEDs should light as described in Starting-up procedure. If this is so, press the transmitter motion buttons and observe the response of the output relays. If the response is normal, the problem is not related to the remote control equipment and the installation must be checked. If any of the relays is not activated, the problem is associated with the remote control equipment.

LED	COLOUR	ON	FLASHING ON	OFF
SIGNAL	Green	-	Own or more Radio Systems sharing the own channel	Receiver doesn't receive any RF signal.
POWER	Green	Power supply OK	-	Power supply NOTOK
HARD OK	Green	Board OK	Slow: Failure in board. Fast: EEPROM error	Failure in board
ID	Green	-	ID Code OK	Not recognised ID Code
DATA	Green	-	Own or other valid messages are presents	No correct messages are being received.

If the problem is associated with the equipment, please send both the transmitter and the receiver to the your Technical Assistance Service, together with a description of the problem and the status of the LEDs.