

# DRIVING INSTRUCTION

## REMOTUS MC9600

Customer:

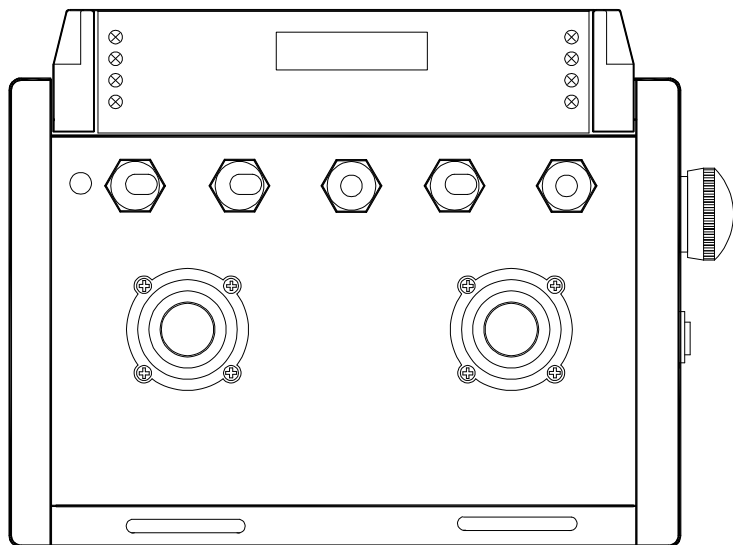
Crane No:

Delivery No: **910**

ID Code: **10**

Frequency: **MHz**

Del. Date: **W03**



## TRANSMITTER ON

Pull out the stop button (EMERGENCY STOP) and the transmitter will make a self-test during 0,5 seconds. The operation indicator lamp starts blinking and the transmitter is on.

## MAIN CONTACTOR ON

Then the transmitter is on press the signal button and this actuates the Main Contactor in the receiver and the traverse is ready for operation.

## NORMAL RUN

The transmitter is designed with two manipulators:

One for Bridge/Trolley travel and the other for Hoist motions, each direction being divided into 2 or 4 steps (a perceptible resistance) facilitating run at a certain speed. The size and direction of the manipulators deflections are equal to the speed and direction of the objects motions. Two motions can be run simultaneously in the same manipulator. The motions stop when the manipulator is brought to neutral, *otherwise push the STOP.*

## **MICRO RUN (NOT SIMULTANEOUS)**

Set the selector for MICRO/NORMAL in position MICRO. The micro-run movements are only at lowest speed in micro-run mode irrespective of the deflections of the manipulator. The other functions are working just as in ordinary runs. The manipulated movements are looped so that only one movement can be operated at a time.

## **DUPLEX**

The transmitter is the master in a duplex system. After every sent message the transmitter requests an answer from the receiver. The answer is shown on the display as a numerical value alternatively as a diode lamp indication. Updating is made 22 times/second.

## **SIGNAL**

A signal can be emitted at any time during the run and is obtained as long as the push button switch is depressed.

## **STOP**

Depress the STOP button for STOP.

## **AUTOMATIC SWITCH- OFF FUNCTION**

The transmitter is equipped with automatic switch-off function, switching off the transmitter after 2, 5, or 15 minutes. After the latest use, depending on what period of time has been looped, it is also possible to loop for continuous drive. The indicator lamp for operation goes out and the Main Contactor is de-energized. For renewed activation of the Main contactor restart is required, press the stop button and pull it out again, and push the signal button. Battery voltage below 5,4 V also causes automatic switch-off.

## **TRANSMITTER OFF MAIN CONTACTOR OFF**

Depress the STOP button which switches off the transmitter. At the same time the Main Contactor is deactivated (the Main Contactor of the traverse cuts out). The operation indicator lamp goes out.

## TRANSMITTER LED INDICATIONS

If the transmitter under start up or under drift detect a fault in any self tests it will indicate with a continuously red light. After what the transmitter closed down. If it indicates continuously yellow light when you start up the transmitter it will be something fault with some of the manipulators.

INDICATIONS	EXPLANATIONS
Green flashing	Drift
Yellow flashing	Battery voltage low < 5,9 V
Yellow continuously	Discharge battery voltage < 5,4 V
Red continuously	Fault, see the service manual


## RUN DOWN BATTERY









The transmitter is equipped with an indicator lamp (green and yellow) for battery status. The lamp blinks green when the battery voltage is normal (=6V), but starts to blink yellow when it falls (<5,9V). When the indicator lamp has started blinking yellow the transmitter can be operated, but the battery will be changed, before the voltage is so low (<5,4V) that the transmitter switches off automatically. This is indicated by the indicator lamp showing fixed yellow light. The two last-mentioned statuses are also present at outlets in the receiver.

## CHARGING INSTRUCTIONS








- \* The battery has got power for 10 hours continuous operation.
  - \* Charging time 1,5 hours (quick-charge) there upon changes to maintenance charging which does not need supervising.
  - \* The charging device has LED indication for quick charge (fixed red LED) or maintenance charge (flashing red LED).
  - \* Take the battery out of the charger before the main-connection is disconnect.
  - \* A WELL MAINTAINED BATTERY IS NECESSARY FOR FAULTLESS OPERATION
  - \* WATCH THE BATTERY CHARGE AND CHARGING CAREFULLY.
  - \* THE BATTERY DID NOT BE CHARGED IF ITS TEMPERATURE IS LOWER THAN +10°C OR HIGHER THAN +35°C.
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## INSTRUCTIONS FOR CRANE OPERATORS

**These instructions have to be followed. Marked **

1.  Check that the radio transmitter operates on the crane which you are going to drive. Check the marking. Check the function of the radio transmitter.
2.  Check that no unauthorized person is on or at the crane when you start to drive it. The blocking device at entry of the crane should be closed.
3.  Check the position of the symbols for driving direction (crane-trolley travel).
4.  At the beginning of each shift the crane operator is to test brake, limit switches and emergency stop function.
5.  The crane operator is when driving the crane to walk or stand at a suitable distance from the crane hoist in order to have adequate overview of the operation.
6.  It is prohibited to move the crane load over oneself or workmates. Signal in order to warn workmates.
7.  Avoid driving into end stops since equipment and goods can be damaged.
8.  Check your own free passageway in order to avoid tripping over material on the ground when you drive the crane Keep the workplace in good order.



9.  If you lose control of the crane movements, release the pushbuttons to obtain the zero position in order to stop the crane. If still it does not stop, actuate the STOP function.
10.  Find out where the crane's main power disconnected is in order to be able to quickly switch off if required.
11.  Never hand over the transmitter to anybody who has not undergone training in radio-control crane operation.
12.  After completed operation you should always switch the transmitter off with STOP. Note! Do never put the transmitter aside without switching the transmitter off with STOP.
13.  The main contactor of the crane is to be switched off after end of working hours. The transmitter is then to be kept inaccessible to unauthorized persons.
14.  In case of faults or breakdowns in the radio control equipment the crane should permit operating from the cab or with suspended operating gear. In such case first turn the switch from radio operation to manual operation. Make certain how this switch-over is to be made before you start driving any individual crane.
15.  Make sure that the receiver can not be activated when you service the transmitter.

**ALWAYS REPORT DEFECTS AND DEFICIENCIES TO THE WORK MANAGEMENT.**