

Demag remote controls

Mobile controls – safe and efficient



Simple infrared or radio control from almost any position



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Whatever needs to be controlled – cranes, suspension monorails, transfer carriages, doors, machines or systems, indoors or outdoors – our infrared and radio control systems offer decisive benefits under all conditions.

Regardless of the type of remote control you select – it soon pays off, since many operations can be carried out more efficiently and much more safely when operators have freedom of movement.

Dematik IR infrared controls

These controls offer outstanding features such as:

- Simultaneous control of up to 32 transmitters without any mutual interference.
- One and the same device or system can be controlled by several transmitters – with monitored transmitter switch-over.
- Increased safety due to limitation of the range (typically 40 m).
- No frequency overlapping.



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Demag RC-J joystick radio controls

Developed mainly for controlling complex three-axes cranes with motions in three axes or similar versatile machinery, RC-J joystick radio controls offer two special performance characteristics:

- A total of 67 radio channels can be used in the F band, and the frequency can be changed simply by pressing a button. Thus, the radio control guarantees interference-free operation even in built-up areas with heavy frequency traffic.

- Control commands as well as analog signals are available at the receiver via the standard PWM interface for each axis. This ensures precise and interference-free control of Demag DHES hoists and Demag InDrive travel drives featuring frequency inverters.

Demag RC-10 radio controls

The significant benefits of this control include:

- Smooth transmission and interference-free reception even in built-up areas with heavy frequency traffic thanks to variable-frequency operation.
- Operation also outdoors.
- Receiver does not cut off due to large loads.
- Characteristic range approx. 100 m.
- Protected by electronic key.

Technical data

Dematik IR infrared control

Hand-held transmitter:

- Ergonomic hand-held transmitter with bag.
- Transmitter range approx. 40 m with ambient light level at ± 1000 lx and transmitter aligned at $\pm 20^\circ$.
- Designed to serve 2 axes (IR-6), 3 axes (IR-10) or 3 axes and a variety of special functions (IR-16).
- Wall-mounted bracket for hand-held transmitter with integrated charging device (IP 65).
Power supply to the transmitter via NiMH battery with plug connector; 100% cadmium and mercury-free (NiMH batteries do not display the disadvantages of NiCd batteries with reference to exhaustive discharge and memory effect).
- Second battery included in the supply.
- Battery capacity sufficient for 8 hours of operation at 50% CDF.
- Battery status display via LED, warning against discharged battery via LED and an additional acoustic signal.
- No transmitter alignment required at close range.
- Address encoding for simultaneous operation of max. 32 transmitters in an optical area without any mutual interference.
- Multi-transmitter operation: a system can be controlled using up to 6 transmitters by monitoring transmitter changeover.
- Enclosure type IP 65 (hand-held transmitter).
- Weight depending upon the type, incl. rechargeable battery, 400 to 600 g.

Receiver:

- Reliable coverage of the entire reception area optimised infrared sensors
- IP 65 type of enclosure for infrared sensors.
- Ambient temperature -20 to $+70^\circ$ C.



Demag RC-10 radio control

Hand-held transmitter:

- Ergonomic hand-held transmitter with bag.
- Transmitter range approx. 100 m.
- 10 keys, designed for 3 axes.
- Protection against unauthorised use with electronic key.
- Wall-mounted bracket for hand-held transmitter with integrated charging device (IP 65).
- Power supply to the transmitter via NiMH battery with plug connector; 100% cadmium and mercury-free (NiMH batteries do not display the disadvantages of NiCd batteries with reference to exhaustive discharge and memory effect).
- Second battery included in the supply.
- Battery capacity sufficient for 8 hours of operation at 50% CDF.
- Battery status display via LED, warning against discharged battery via LED and an additional acoustic signal.
- Enclosure type IP 65.
- Weight incl. rechargeable battery approx. 500 g.

Receiver:

- IP 65 plastic enclosure.
- Service-friendly thanks to plug-in card design.
- Integrated antenna.
- Relay outputs.
- Ambient temperature -20° to $+70^\circ$ C.
- Approved for operation in many countries.



Demag RC-J joystick radio control

Hand-held transmitter:

- Fast and optimum operation thanks to safe and ergonomically designed transmitter with one 2-axis and one 1-axis master controller, stop key and 4 further keys.
- Three freely selectable additional functions and switch-over feature (crane 1/crane 2).
- Transmitter range approx. 100 m.
- Protection against unauthorised use with mechanical key switch.
- Power supply to the transmitter via NiMH batteries with plug connector.
- Second battery included in the supply.
- Battery capacity sufficient for 8 hours of operation at 50% CDF.
- Type of enclosure IP 65.
- Weight incl. rechargeable battery approx. 1250 g.

Receiver:

- IP 65 plastic enclosure.
- 18 output relays plus stop function (emergency stop), 4 output relays for lifting/lowering.
- PWM interface for each axis.
- Mixed operation of inverter and contactor controls possible in every combination.
- Integrated BE function (to prevent regenerative braking by squirrel-cage travel drive motors (to eliminate unwanted mechanical loading and load sway)) and SGDM function (closing and release delay of the lifting/lowering motion and protection against flick-switching via switches to be activated in the receiver).
- Integrated antenna.
- Ambient temperature -20° to $+70^\circ$ C.
- Postal approval for operation with no registration requirement or fees in many European countries.

Special design:

Transmitter with up to 13 additional special switches (selector, rotary and push-button switches), variants with 3 master controllers on request; marking to customer specifications.



Demag Cranes & Components

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