

magtron

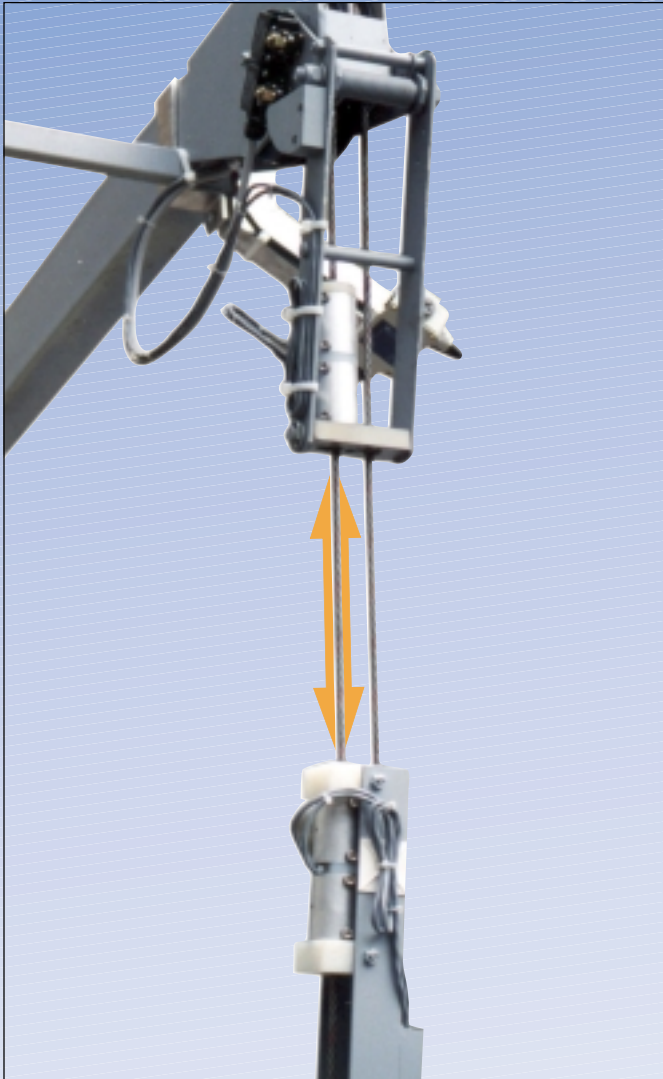
transmission system



MAGTRON 4020 remote control

The MAGTRON system is used for duplex transmission of data and telephone signals by induction of the magnetic field in a **closed circuit created by the steel wire ropes**.

The signals are transmitted by 4 transducers.



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Advantages of the MAGTRON system

- transmission of commands via the standard metal suspension rope, avoiding pendant electrical cables or a special suspension cables with integrated electrical wires;
- the MAGTRON needs no special frequency band;
- as the transmission medium is the metal wire rope and not radio waves, the MAGTRON is much less sensitive to interferences created by other devices and does not itself cause interference to other systems (electronic or data processing systems, etc.);
- the MAGTRON control is exclusively for our machines, whereas radio remote control system are used by many other applications, with the possible risk of there being 2 radios of the same frequency on 2 neighbouring sites;
- control voltage reduced to 10V, thus preventing any risk of electrocution;
- the telephone and the display to assist with control are provided as standard;
- the MAGTRON cradle control box is easy to remove in order to protect it from adverse weather conditions and prevent improper use of the machine.

The MAGTRON equipment has been subject to a safety analysis (APAVE N° 9454079) (French organisation) which guarantees that a system failure will not cause a dangerous situation such as the loss of the emergency stop or the transmission of an incorrect command.

Power supply to MAGTRON control box

The MAGTRON control box is supplied by a NI/MH (nickel hydride) main battery with a capacity of 9 hours. Recharging takes 3 hours.

A NI/CD (nickel cadmium) back-up battery which provides one hour's operation is brought into operation automatically when the main battery is flat.

Characteristics:

- Range: 100 m
- Keyboard 20 keys IP67
- 5 inputs for NC contacts (limit switches, etc.)
- 2 inputs for NO contacts (limit switches, etc.)
- 1 input for validation keyboard
- Phone between emission and reception box
- Emergency stop in permanent transmission
- User assist by the display
- Auto back-up battery
- 4 transducers
- RS485 link with the PLC
- Magnetic interference protection at 10V/M (500MHZ/1GHZ)

Option:

- Amplifier 170 m
- Amplifier 300 m
- Deported phone
- Maintenance display for reception card.

Applications:

- Building maintenance unit (BMU)
- Suspended platforms
- Any application involving one or several wire ropes, looped directly or via a metal structure.

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