Flex BASE-MRX (CE)


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Your New Radio Remote Control System

Thank you for your purchase of Magnetek’s Flex BASE-MRX Radio Remote Equipment Control. Magnetek has set a whole new standard in radio remote performance, dependability, and value with this unique new line of handheld transmitters.

If your product ever needs modification or service, please contact one of our representatives at the following locations:

U.S. Service Information

For questions regarding service or technical information contact:
1-866-MAG-SERV
(1-866-624-7378)
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262-783-3500

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PRODUCT MANUAL SAFETY INFORMATION

Magnetek, Inc. (Magnetek) offers a broad range of radio remote control products, control products and adjustable frequency drives, and industrial braking systems for overhead material handling applications. This manual has been prepared by Magnetek to provide information and recommendations for the installation, use, operation and service of Magnetek’s material handling products and systems (Magnetek Products). Anyone who uses, operates, maintains, services, installs or owns Magnetek Products should know, understand and follow the instructions and safety recommendations in this manual for Magnetek Products.

The recommendations in this manual do not take precedence over any of the following requirements relating to cranes, hoists and lifting devices:

- Instructions, manuals, and safety warnings of the manufacturers of the equipment where the radio system is used,
- Plant safety rules and procedures of the employers and the owners of facilities where the Magnetek Products are being used,
- Regulations issued by the Occupational Health and Safety Administration (OSHA),
- Applicable local, state or federal codes, ordinances, standards and requirements, or
- Safety standards and practices for the overhead material handling industry.

This manual does not include or address the specific instructions and safety warnings of these manufacturers or any of the other requirements listed above. It is the responsibility of the owners, users and operators of the Magnetek Products to know, understand and follow all of these requirements. It is the responsibility of the owner of the Magnetek Products to make its employees aware of all of the above listed requirements and to make certain that all operators are properly trained. **No one should use Magnetek Products prior to becoming familiar with and being trained in these requirements.**

WARRANTY INFORMATION

FOR INFORMATION ON MAGNETEK’S PRODUCT WARRANTIES BY PRODUCT TYPE, PLEASE VISIT WWW.MAGNETEK.COM.
General Operating Procedures

1. Reset the STOP button located on the top left corner of the transmitter by rotating it clockwise or counterclockwise. The button will pop up. Transmitter is powered on when the STOP button is elevated.

2. After turning on the transmitter power, check the Status LED on the transmitter for any sign of system irregularities (refer to manual section: Transmitter Status LED Indications). If the transmitter is in good working order the Status LED will display solid green for up to 2 seconds at startup (no faults detected).

3. Press the START button for up to 1 second to activate the receiver MAIN relays (Status LED solid green). When the receiver MAIN relays are activated, the Status LED will change from solid green to solid orange (system on). The same START button becomes an auxiliary function thereafter (refer to manual section: START + AUX Function). Then press any pushbutton on the transmitter to begin operation. Pressing any pushbutton prior to executing the START command at startup will result in no signals transmitted (Status LED blinks orange).

4. In case of an emergency, press down the STOP button to disconnect the receiver MAIN relays and the transmitter power. To resume operation, rotate the STOP button clockwise or counterclockwise. The button will pop up. Then press the START button for up to 1 second to reconnect the receiver MAIN relays. For safety, pressing the START button is strictly required every time the transmitter is turned on or after every STOP button reset.

5. After 5 minutes of transmitter inactivity (pushbutton not pressed), the receiver MAIN relays are temporarily disconnected (refer to manual section: Inactivity Timer Settings). Press any pushbutton or the START button to resume operation (refer to manual section: Start Function Settings). The receiver MAIN relays are also disconnected when encountering strong radio interference, dead spots, low battery condition, and system out of operating range.

6. Turn off the transmitter power by pressing down the STOP button; it will disconnect the transmitter power and the receiver MAIN relays altogether.
Output Relay Contact Diagrams

Flex 4BASE-MRX (dual speed model)

```
PUSH BUTTON 1~2                  MAIN / FUNC
  COM  8 -- K1
  FWD  9 -- K2
  REV 10 -- K3
  F/R 2 11

PUSH BUTTON 3~4
  COM  8 -- K4
  FWD 12 -- K5
  REV 13 -- K6
  F/R 2 14
```

Flex 6BASE-MRX (dual speed model)

```
PUSH BUTTON 1~2                  PUSH BUTTON 3~4                  PUSH BUTTON 5~6
  COM  8 -- K1
  FWD  9 -- K2
  REV 10 -- K3
  F/R 2 11

PUSH BUTTON 3~4
  COM  8 -- K4
  FWD 12 -- K5
  REV 13 -- K6
  F/R 2 14
```

```
MAIN / FUNC
  COM  4 -- K27B K27A
  MAIN 5
  FUNC 7 -- K10

Power
  ~/- 1
  2 Power Transformer
  ~/+ 3
```

* For 9~36VDC power supply, wire #1 corresponds to the negative charge (-) and wire #3 corresponds to the positive charge (+). Wire #2 is GROUND.
Receiver Installation

1. For best reception, the location of the receiver should be visible to the operator at all times.

2. The location selected should not be exposed to high levels of electric noise. Mounting the receiver next to an unshielded variable-frequency drive may cause radio interference. Always locate the receiver as far away from variable-frequency drives and electric motors as possible.

3. When installing an external antenna, make sure the MCX jack located on the RF/decoder board inside the receiver is connected and jumper is set to EXT position.

4. Drill four holes (standard) or two holes (optional mounting bracket) on the control panel, wall or location where the receiver is to be installed.

5. Make sure the screws are tightened after installation (not provided with the system).
6. Slide the receiver down along the guided track to secure the receiver to the mounting bracket.

7. Remove the receiver by pressing down the bracket release and pull the receiver upward until it clears the guided track.