



INMOTION Controls Inc.

Industrial Radio Remote Control



**INMOTION Series 1242
User's Manual**

Safety/Reliability/User-Friendly

February, 2009

Contents

Warning and Caution

Warranty

Important Information Before You Start

Specification

Transmitter & Receiver Overview





General Operation

- Getting Started
- Transmitter LED Indicator
- Changing Receiver Input Voltage

Receiver Wiring Diagram

Warning and Caution

The following symbols may be found on the product or throughout the documentation.

Symbol	Description
	Refer to Manual Refer to the user manual for additional information when marked with this sign.
	Dangerous Voltage Indicates the presence of hazardous voltage. Unsafe practice could result in severe personal injury.
	Warning Denotes a hazard. Included text gives proper procedures. Failure to follow instructions could result in severe personal injury and/or property damage.
	Caution Denotes a hazard. Included text gives proper procedures. Failure to follow instructions could result in minor personal injury and/or property damage.

Warranty

Warranty

INMOTION Controls, Inc. guarantees that this equipment meets its published specification at the time of shipment from the factory. This equipment will perform as described if installed properly. However, INMOTION cannot guarantee that operation in INMOTION Series 1242 is absolutely error-free or without interruption.

Warranty Period

This equipment is warranted against defects in materials and workmanship for a period of one year from the date of shipment. During the warranty period, INMOTION is responsible for necessary repairs as long as the product can be proven to be defective.

For warranty service or repair, this equipment must be returned to a service facility designated by INMOTION. Customer is responsible for shipping charges to INMOTION, while INMOTION will pay the return shipping charges.

Excluded Items

This warranty does not include consumable parts such as Joy stick, batteries, fuses, buttons, and relays. Also this warranty does not cover defects caused by improper installation, improper or insufficient maintenance, unauthorized modification, unavoidable natural essential, improper operation, ignorance of environmental specifications, improper software/interfaces.

Remarks

1. No other warranty is expressed or implied, except for the above mentioned.
2. The remedies provided herein are the buyer's sole and exclusive remedies. INMOTION shall not be liable for any direct/indirect, special, incidental or consequential damages.

Important Information Before You Start

Important

1. Read this manual carefully before operating and installation.
2. Due to the complex nature of equipment, it is necessary to read the entire manual before installation.
3. Never allow any unauthorized personnel to dismantle equipment as this may cause equipment damage.
4. The equipment has been stringently tested for quality assurance before delivery from factory. However, it must not be used in extremely dangerous situations, or where damage may result.
5. After operation, switch off crane main power as well as receiver unit and remove rotary key from transmitter unit.
6. Keep the transmitter in a safe place when not in use to avoid any unintentional operation.
7. The crane should be equipped with a main power relay, limit switch and other safety devices required.
8. Do not use this device during an electrical storm or where there are conditions of high electrical interference.
9. Always check transmitter batteries and receiver input power condition before operation.
10. The installation and maintenance service is allowed only when the crane and receiver power are off to avoid electrical shock.
11. The contents of the manual may be amended by the manufacturer without notice.
12. The specification and function is subject to change without notice by manufacturer.

Precautions

1. Press EMS button and switch off main power of crane and receiver after operation. Then remove transmitter rotary key and keep in a safe place.
2. The following situations may cause receiver response delay and stop operation immediately when situation occurs.
 - (a) Beyond operating range.
 - (b) During severe radio interference
3. Remove transmitter batteries when not in use for a long period of time.
4. To extend product life, please follow the standard operating procedure and maintain system regularly.
5. Check EMS button and other system main functions before operation.
6. Press EMS button during system failure or when any abnormal conditions occur.
7. The operator must be familiar with emergency procedures before operating the system.

Emergency Procedures

In case of emergency, please follow the procedure below:

1. Press EMS button and stop operation
2. Switch rotary key to “OFF” position and remove it from transmitter unit.
3. Switch off crane main power.
4. Contact the authorized distributor for further assistance.

Specification

General Specification

Operating Channel.....	70 Channels
ID Code.....	Over 1 Million Sets
Channel Space.....	25 KHz
Hamming Distance.....	≥ 4
Structure.....	Enhanced Glass-Fiber
Operating Environment.....	-40°F ~ +185°F
Operating Distance.....	Up to 300 Feet

Transmitter

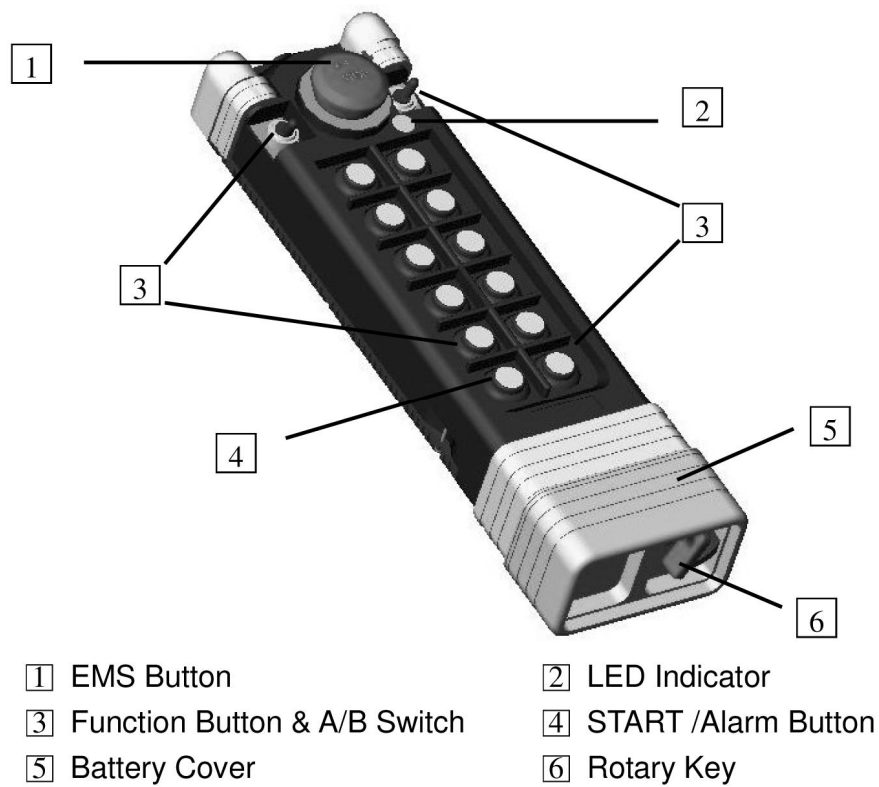
Power.....	(4) AA Batteries
Emission Power.....	< 10mW
Dimensions.....	10.79" x 3.03" x 1.65"
Weight.....	0.848 lbs.

Receiver

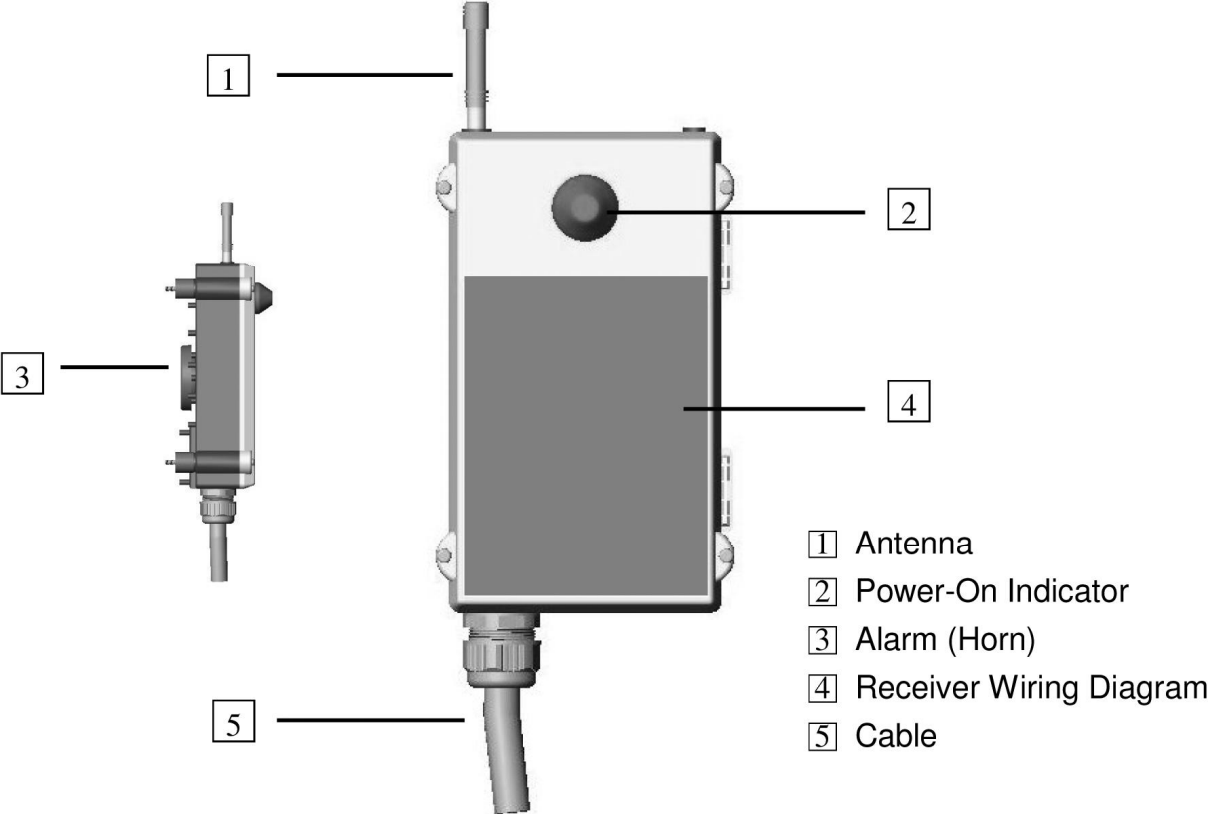
Power.....	24/48/110/220VAC ($\pm 20\%$)
Dimensions.....	12.20" x 6.30" x 3.74"
Weight.....	6.39 lbs.

Transmitter & Receiver Overview

INMOTION Series 1242 Transmitter Overview



INMOTION Series 1242 Receiver Overview



General Operation

Getting Started

1. Install 4 new AA-size batteries in the battery compartment (make sure batteries are correctly installed according to “Positive” & “Negative”) and close the battery cover firmly.
2. Insert rotary key into transmitter unit and switch to “ON” position.
3. Press START button to power on the system.
Note: Red LED indicator will flash if this procedure is not followed accordingly.
4. Press function button for operation.

Follow the procedure below when finished with operation.

1. Press EMS button.
2. Switch rotary key to “OFF” position.
3. Remove rotary key and keep in a safe place.
4. Remove batteries if not to be used for a long period of time.

Transmitter LED Indicator

Green (Full Power)	Operate as usual.
Yellow (Mid Power)	Unload the article as soon as possible and stop operation until old batteries are replaced with fresh batteries.
Red (Low Power)	An EMS signal will be sent to the receiver automatically to turn off receiver. To avoid interruption during operation, check battery power frequently.

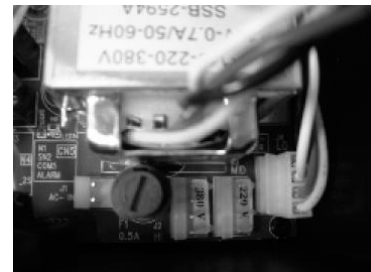
NOTE:

Switch rotary key to “OFF” position to turn off transmitter completely thus extending battery life, otherwise transmitter is in standby mode when rotary key is in the “ON” position.

Changing Receiver Input Voltage

If the factory preset receiver voltage is different from application, follow the procedure below to change input voltage. (There are (3) different voltage options for each receiver as shown in the picture.)

1. Switch off receiver power.
2. Remove the connector from original position.
3. Insert connector into the new voltage position accordingly.

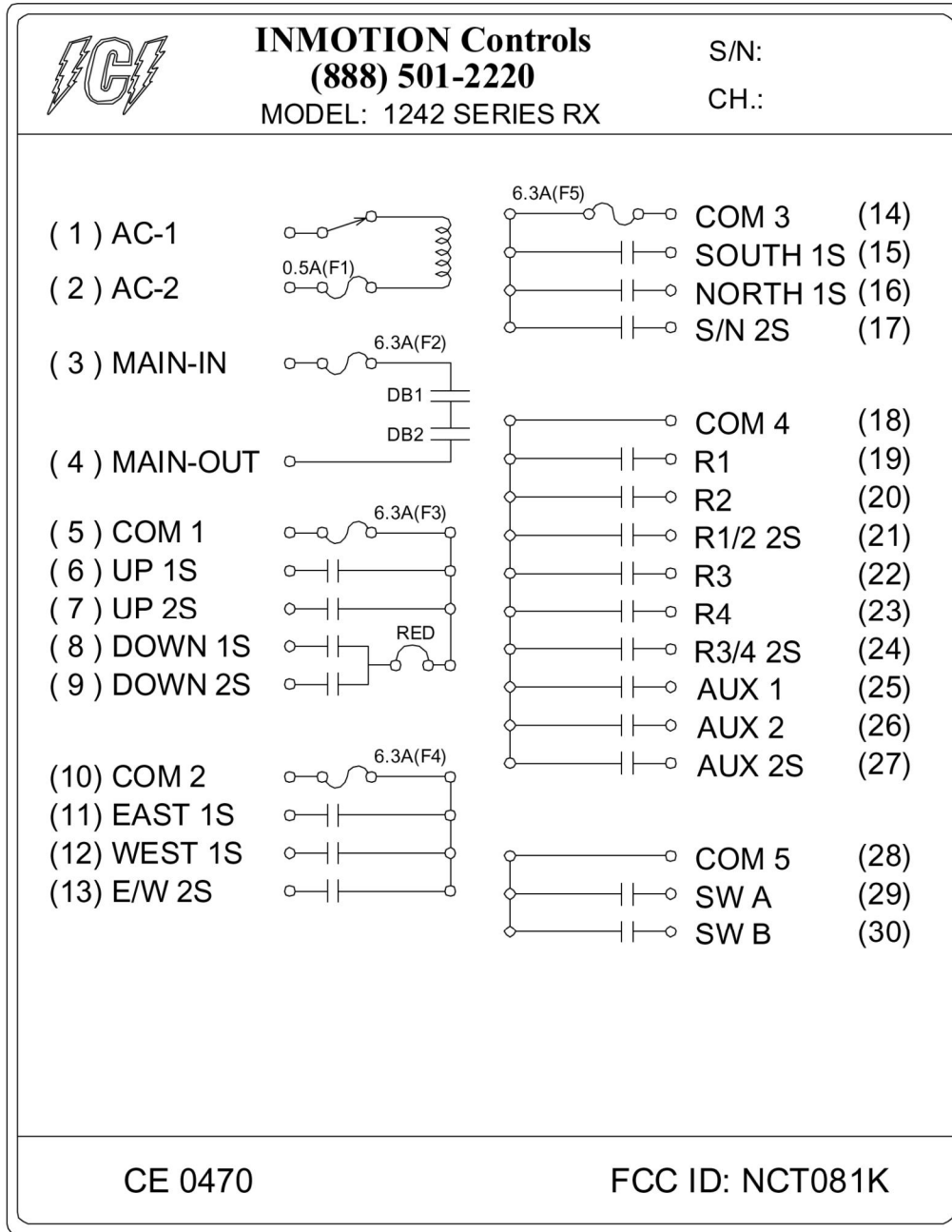


NOTE:

The Standard Voltages are 48V/110V/220VAC.

The default setting is 110VAC.

Receiver Wiring Diagram



CE 0470

FCC ID: NCT081K