

## F25-60 Industrial Remote Controller



# F25 -60 Operating Instructions

## **Warranty**

Lee's Hi-Tech Enterprises Co., Ltd. guarantees that this product meets its published specifications at the time of shipment from the factory. Under proper installation it should work as expected.

### **Warranty Period**

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

For warranty service or repair this product must be returned to a service facility designated by TELECRANE. Buyer will pay shipping charges to TELECRANE while TELECRANE will pay return shipping charges.

### **Excluded Items**

This warranty does not include consumptive parts such as batteries, fuses, buttons, relays. Also this warranty does not cover damages caused by improper installation, improper or insufficient maintenance, unauthorized modification, improper operation, ignorance of environmental specifications, or improper software setting.

### **Remarks**

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

## **Attention**

1. Never dismantle the equipment by any unauthorized personnel, or equipment may be damaged.
2. This manual is for reference only. Please consult your distributor for further assistance.
3. The equipment has been strictly tested for quality before delivery from our plant. However, this equipment must not be used in dangerous situations or where damage may result.
4. After operation, shut off main power to the crane, power to receiver, and remove transmitter key.
5. Transmitter should be placed in a safe area when not in use to avoid accidental pressing of buttons.
6. The crane should be equipped with main power relay, limit switch and other safety devices.
7. Don't use equipment during lightning or high electrical interference conditions.
8. Make sure that the batteries are in good condition and power for receiver is correct.
9. Maintenance should only be done while the crane's main power is off to prevent electrical shock.
10. The contents of this manual may be amended by the manufacturer without notice.
11. The manufacturer may introduce new functions to the equipment as necessary, therefore, the descriptions may change.

## Precautions

1. Operating in an industrial facility is relatively dangerous; therefore, operator must have taken the adequate trainings in using F25 system.
2. Those who operate the machine should be healthy and have good judgment in regard to safety.
3. Although the F25 transmitter is so durable and resistant for the fluctuating temperature, care still need be taken to prevent it from the severe impact or pressure.
4. If the severe interference occurred the equipment should be stopped at once.
5. Please take the batteries out when the equipment will not be used for a long time.
6. Be sure to know the “Procedures of Emergency “as follows.

## Emergency

In case of Emergency, please follow the procedure below and contact the distributor for service immediately.

1. Press EMS button of transmitter.
2. Remove the key from transmitter.
3. Switch off crane main power.
4. Contact distributor nearest you immediately.

## How to start

1. Insert 4 AA-size batteries into battery compartment.
2. Insert rotary key and switch to ON position.
3. Follow the Power-On procedure to energize receiver main relay.
4. Operate normally according to the function settings have been done.
5. Follow the instructions below to switch off the system: (1) Press EMS button /mushroom, (2) remove the key and keep it in safe place, (3) Switch off the equipment’s main power (e.g. Crane)

## Transmitter Batteries

Transmitter requires 4 AA size alkaline or rechargeable batteries. 3 stages power indicator available on transmitter. During operation, green LED indicator flashes when battery power is full and flashes yellow when battery power is low. Replace new battery immediately when yellow indicator appears, unloading and stop all activity until new battery is replaced. An EMS stop signal will be sent automatically to receiver accompany with red LED indicator if the transmitter power is below the limit.

## ID Code Remote Setting

ID Code Remote setting allows you to overwrite receiver ID code from transmitter. Before performing ID code remote setting, make sure both TX and RX are in same frequency channel.

**Caution:** The prior receiver ID code will be permanent erased once ID code remote setting is done.

**Before ID code remote setting, please follow the instruction below,**

- Make sure both TX and RX are same model and in the same frequency channel.
- Receiver JP1 jumper must be installed in order to perform ID code remote setting.
- To avoid interference during remote setting, have transmitter closer to RX as possible.
- Receiver AC power supply must be disconnect and turn on again after 20 seconds. (ID code remote setting must be completed within 4 minutes after receiver is being turn on again).

**Instructions:**

1. Disconnect receiver AC power supply completely (MAIN SWITCH) and turn on again after 20 seconds.
2. Press EMS button and switch Start Key into ON position.
3. Press R1 pushbutton and hold it (Do not release R1 button until next step is completed).
4. Press R2 button 4 times continuously and release all buttons when red LED flashing.
5. Start the system as usual.

**Warning:**

- (1) Any other receiver within control distance, the ID code is possible to be overwritten unintentionally.
- (2) ID code remote setting synchronized ID code data only. No any other data will be overwritten or changed.

**NC/NO output connection**

Relay module are designed for both type of relay such NO and NC/NO. Both outputs connection of NC/NO relay are available on the relay module. To replace NC/NO relay, remove existing NO relay and insert a new NC/NO relay. Follow the relay module indication for new output wire connections for NC/NO relay.

**COM Configuration**

P1~P44 are terminal for COM, changing COM configuration by using wire included inside the packages. Different size of wire is available.

**Troubleshooting**

Symptom	Causes or solution
Transmitter red LED indicator flashing quickly (every 0.2 sec) when operating	<ul style="list-style-type: none"><li>■ One of the pushbuttons is jammed.</li><li>■ Joystick is not in neutral position.</li><li>■ The EMS mushroom is not released completely.</li><li>■ The transmitter is not properly Power-On.</li></ul> <p><b>Note:</b> Please contact the distributor nearest you for further assistant if need.</p>

Transmitter green/Yellow LED indicator flashing crossly when start key switch on	<ul style="list-style-type: none"> <li>■ The joystick #1 memory is damaged. Contact the distributor for service.</li> </ul>
Transmitter red/yellow LED indicator flashing crossly when start key switch on	<ul style="list-style-type: none"> <li>■ The joystick #2 memory is damaged. Contact the distributor for service.</li> </ul>
Red LED indicator flashing quickly when start key switch on	<ul style="list-style-type: none"> <li>■ Transmitter main memory is damaged. Contact the distributor for service.</li> </ul>
Transmitter red LED indicator remains on permanent	<ul style="list-style-type: none"> <li>■ Remove the batteries and re-insert again.</li> </ul>
Receiver LED1 indicator flashing quickly	<ul style="list-style-type: none"> <li>■ Receiver main memory is damaged. Contact the distributor for service.</li> </ul>
Receiver does not respond at all	<ul style="list-style-type: none"> <li>■ Switch off main power and switch on again after 20 seconds.</li> </ul>

## **FCC statement in User's Manual (for class B)**

### **"Federal Communications Commission (FCC) Statement**

This Equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### FCC Caution:

1. The device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:
  - (1) This device may not cause harmful interference, and
  - (2) this device must accept any interference received, including interference that may cause undesired operation.
  
2. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
  
3. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

## **Industry Canada Notice**

**Operation is subject to the following two conditions: (1) this device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device.**

### **Industry Canada Caution**

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'IndustrieCanada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.