

F21-E3 INDUSTRIAL RADIO REMOTE CONTROLLER

4 types of transmitter options. Pair up E3 Receiver freely with E3S / E3M / E3B / E3M-4D Transmitter

E3S Transmitter



E3M Transmitter



E3B Transmitter



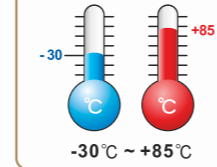
E3M-4D Transmitter



E3 Receiver

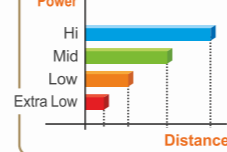


Operating Temp.:



Operating Range:

Apprx. 20~100 Meters. (Selectable)



ID Code:

4.3 Billion Sets
4294967296
An unique Non-Repeated 32 Bit

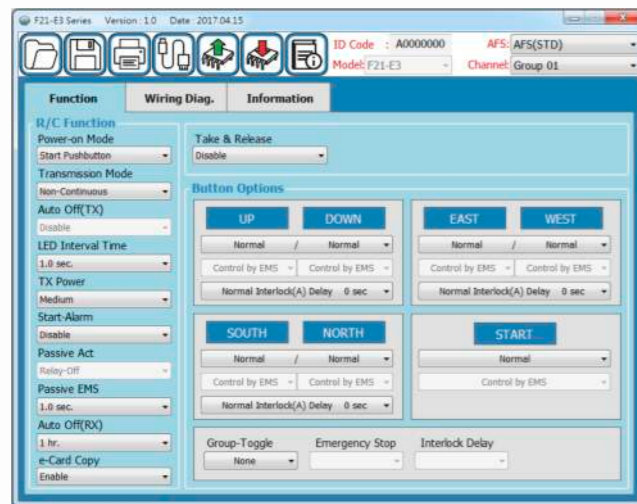
Dimension (mm)	132 x 55 x 39	156 x 61 x 53	163 x 75 x 46	156 x 61 x 53
Weight (g)	Apprx. 205 (w/ batteries)	Apprx. 250 (w/ batteries)	Apprx. 345 (w/ batteries)	Apprx. 250 (w/ batteries)
Power	2 AA Size Batteries (Alkaline, Rechargeable are all acceptable)			
No. of Buttons	6 Single Step Button / 1 Start / 1 Stop (EMS)			4 Double Step Button / 1 Start / 1 Stop (EMS)
Rotary KEY	•	•	•	•
Magnetic KEY			•	•
LED Indicator	•	•	•	•

Dimension (mm): 190 x 85 x 62

Weight (g): Apprx. 785g(w/cable)

Input Power Options:
(HI)48-456VAC / VDC
(LO)10-43VAC / VDC

Software features



Accessories



CD-ROM & USB Interface Cable (Smartphone USB OTG)



Dipole Antenna

Whip Antenna



www.telecrane.com.tw

Patents : www.patentdata.net / info



TELECRANE®

F21-E3 INDUSTRIAL RADIO REMOTE CONTROLLER

F21-E3 improved from the legendary remote controller F21-E1 series

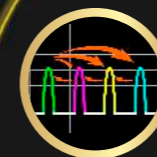
New generation radio technology with valuable features developed from onsite experiences



Surge Protection

Double protections (patented) against surge generated from

- Lightning Strike.
- Back Electromotive Force (Back EMF).



Auto Frequency Selection

- Choose top grade RF IC with sophisticated design. It provides great performance on radio channel selectivity.
- Real time frequency changing technology which provides the best operating experience and free from interference.
- No channel changing required when multiple radio controllers are used at the same time.



Wide Range Power Supply

Wide range input voltage overcomes unstable electricity supply resulted from

- Poor crane busbar contact.
- Voltage drop due to motor/machine start up.



Smartphone App

- Instant reprogramming functions by smartphone on site without needing PC.
- Update App anywhere, anytime.

www.telecrane.com.tw

TELECRANE® F21-E3 INDUSTRIAL Radio Remote Controller



Budget & Environmental Saving

- Transmitter with extremely low battery power consumption.
- The transmitter uses two AA size batteries. (Alkaline, Rechargeable are all acceptable)
- With adjustable operating range, it saves and extends battery life.

Powerful Software Program

- The software consists millions worldwide users' experience.
- The software provides great flexibility to meet most of the applications. It allows reprogramming numbers of parameters such as operation function, emission power, and receiver off time, etc.

Transmitter Options

Transmitter with 3 options at your choice: Compact, Durable and High Efficiency

- E3S: Compact size and idea for warehouse application.
- E3M: Best for overhead crane and with EMS button.
- E3B: The best choice for those familiar with the world top selling model F21-E1B.



Security Enhanced & Anti-Spy

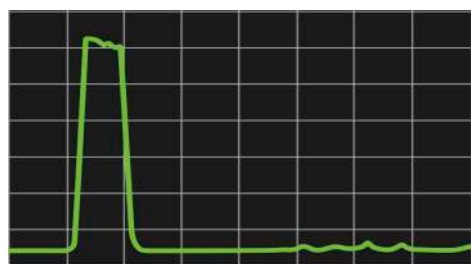
- Transmitter with its powerful processor, it generates SRC (Security Random Code) radio signal with random coding to prevent spy copying.
- By integrating hamming coding and CRC (Cyclic Redundancy Check) technology, it provides accuracy in radio data transmission.
- A unique Non-Repeated security code (ID code), it prevents the error output and improves the operating safety.

Take & Release (Receiver with multi-users)

- This feature allows two or more operators the ability to control one crane system from opposite ends of a long runway or cross travel.

Internal Antenna

- Transmitter and Receiver are built-in with internal antenna.
- Internal antenna saves the space for receiver installation.

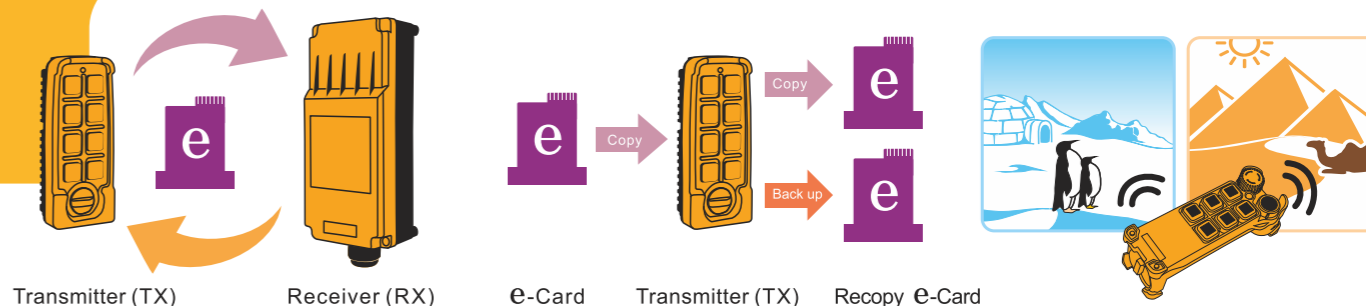


Radio Frequency Filtering

- A sophisticated Surface Acoustic Wave (SAW) filter blocks unwanted radio signal to ensure smooth radio link.
- It creates a secure and reliable operation experience even in a complicated industrial working environment.

Enhanced Durability

- Using fiberglass reinforced plastic materials to enhance the hardness and impact resistance of casing.
- Fine quality pushbutton with most durable life than others.



e-Card (Plug and Play)

- e-Card works similar to SIM card in the mobile phone.
- All system data are carried on a small e-Card for easy transfer to a spare system when needed.
- e-Card is interchangeable between transmitter & receiver. It allows spare transmitter or receiver to resume to work without any downtime.

e-Card Duplicator

- The transmitter also acts as e-Card duplicator for data back-up and transfer.
- No need to buying COPIER anymore.

Reliable Communication

- F21-E3, a smart radio controller made by high technology.
- 100% frequency quality inspection on all radio controllers prior to delivery and ensure frequency tolerance less than 10^{-6} .