

# FLEX

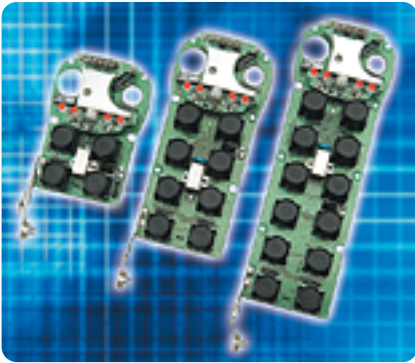
Series

## Industrial Radio Remote Control Systems

Ergonomic & Lightweight  
Durable & Rugged  
Safe & Reliable  
Fully Sealed Enclosures (IP-66)  
62 User-Programmable Channels  
Automatic Channel Scanning Receiver  
Unique I-CHIP Design  
Removable Power Key Switch



- **62 User-Programmable Channels** - Advanced synthesized RF controls with 62 built-in channels, no more fixed channel or fragile quartz crystals to break.
- **Automatic Channel Scanning Receiver** - No more hassle of climbing up the crane to change receiver channels.
- **Over One Million Unique ID Codes (20bit)** - Each and every FLEX system has its own unique ID codes, never repeats.
- **Advanced Controls** - The FLEX system utilizes advanced microprocessor controls with 32bit CRC and Hamming Code, which provide ultra fast, safe, precise, and error-free encoding and decoding.
- **Unique I-CHIP Design** - The I-CHIP functions in a way that is very similar to SIM card used on mobile phones, with the ability to transfer system information and settings from one transmitter to another without the hassle of resetting the spares.
- **Full System Compatibility** - All components (software & hardware) are fully compatible regardless of different type models, which minimized the need for large inventory of spare parts.
- **Reliable Push Buttons** - The in-house designed push buttons with gold-plated contacts are rated for more than one million press cycles. The defined snap-action steps provide positive tactile feedbacks even when wearing gloves.
- **Low Power Consumption** - The transmitter only requires two "AA" alkaline batteries for more than 100 hours of operation.
- **Durable & Rugged Enclosures** - The transmitter and receiver enclosures are manufactured from industrial-strength nylon and fiberglass composite materials that are highly resistance to breakage and deformation even in the most abusive environments.
- **Sealed & Chemically Resistant Enclosures** - The IP-66/NEMA-4X rated transmitter and receiver enclosures are also highly resistance to dirt, liquid, acid, alkali, grease and oil penetration.
- **Abundant Programmable Functions** - The FLEX system is equipped with more than 200 user-programmable functions to suit all types of applications, no external programming device required.
- **Pitch & Catch Operation** - This function allows 2 operators controlling a crane from opposite ends of a long or cross travel.
- **Tandem Operation** - This function allows 2 operators controlling 2 cranes independently and simultaneously.
- **Random Access Operation** - This function allows 3 operators randomly controlling 3 cranes on a first come-first served basis.
- **Pre-Wired Output Cable** - FLEX 4ES/EX and 8ES/EX models are standard-equipped with a pre-wired output cable.
- **Full Compliance** - All systems are fully complied with the FCC Part-15 Rules, European Directives (Safety, EMC, R&TTE) and Industry Canada Specifications (IC).



## Specifications

**Frequency Range:** 433 ~ 434 MHz (62 channels)

**Modulation:** Digital Frequency Modulation

**Encoding/ Decoding Reference:** Microprocessor Controlled

**Operating Range:** 100 Meters / 300 Feet

**Frequency Control:** Synthesized PLL

**Responding Time:** 40ms (average)

**Receiver Sensitivity:** -113dBm

**Transmitter Voltage:** 3.0VDC

**Output Contact Rating:** 250VAC @ 10A

**Supplied Voltage:** 110VAC ~ 460VAC @ 50/60Hz

**Enclosure Rating:** IP-66 (NEMA-4X)

**Operating Temperature:** -25°C ~ 75°C / -13°F ~ 167°F

**Transmitter Dimensions:** 138mm x 69mm x 34mm (FLEX 4ES/EX)

184mm x 69mm x 34mm (FLEX 8ES/EX)

230mm x 69mm x 35mm (FLEX 12ES/EX)

**Receiver Dimensions:** 363mm x 228mm x 70mm (all models)

**Transmitter Weight:** 192g / 6.8oz (FLEX 4ES/EX)

242g / 8.5oz (FLEX 8ES/EX)

296g / 10.4oz (FLEX 12ES/EX)

**Receiver Weight:** 2,500g / 5.5lb (all models)

## Models

**FLEX 4ES:** Four 1-Speed Push Buttons (up to 2 motions)

**FLEX 8ES:** Eight 1-Speed Push Buttons (up to 4 motions)

**FLEX 12ES:** Twelve 1-Speed Push Buttons (up to 5 motions)

**FLEX 4EX:** Four 2-Speed Push Buttons (up to 2 motions)

**FLEX 8EX:** Eight 2-Speed Push Buttons (up to 4 motions)

**FLEX 12EX:** Twelve 2-Speed Push Buttons (up to 5 motions)

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