

# FLEX

ECO Series

## Industrial Radio Control Systems

- ▶ Ergonomic, Compact & Lightweight
- ▶ Durable & Rugged
- ▶ Safe & Reliable
- ▶ Wireless Remote Pairing
- ▶ Receiver Status Feedback
- ▶ Fully Sealed Enclosures (IP66)
- ▶ 62 User Programmable Channels
- ▶ Unique Receiver Mounting Brackets
- ▶ Reliable Pushbuttons
- ▶ Transmitter Access Card (TAC)



**Advanced Controls** - The Flex ECO system utilizes dual advanced microprocessor controls with 32 bit CRC and Hamming Code, providing ultra fast, safe, precise and error-free encoding and decoding.

**Wireless Remote Pairing Function** - System information can be transferred wirelessly between two transmitters or between a transmitter and a receiver without the hassle of resetting the spares.

**Receiver Status Feedback** - The system is capable of two-way communication between transmitter and receiver with status feedbacks (e.g. receiver MAIN relays and fault detections).

**Programmable Transmitter Access Card (TAC)** - The optional transmitter access card (TAC) further guard against any unauthorized personnel from operating the system. The TAC can also be individually programmed unlocking any specific function or functions on the transmitter allowing a more experienced or qualified user to operate, such as the magnet lift, tandem operation or entering restricted areas.

**Durable & Rugged Enclosures** - All enclosures are made from industrial strength nylon and fiberglass composite materials, not ABS plastic. All housings meet the IP66/NEMA4 requirements and are highly resistant to dirt, liquid, acid, alkali, grease and oil penetration. The receiver enclosure and output cables are UL94-V0 rated.

**Compact & Lightweight** - The ergonomically designed transmitter and receiver enclosures are extremely compact and lightweight for easy operation and installation.

**Unique Mounting Bracket** - The removable receiver mounting brackets are uniquely designed for easy mounting and dismounting.

**Low Power Consumption** - The transmitter requires only two "AA" alkaline batteries with more than 100 hours of operation. If rechargeable method is preferred, any off-the-shelf high capacity Ni-MH rechargeable batteries can be used in conjunction with the in-house designed charging station, fully interchangeable.

**Pitch & Catch Operation** - This standard-equipped function allows two operators controlling from opposite ends of a crane or equipment.

**Tandem Operation** - This function allows one operator controlling two cranes at the same time via an A/B/A+B rotary select switch.

**Random Access Operation** - This function allows three operators randomly controlling three cranes on a first come - first served basis.

**Multiple Receivers Operation** - This function allows one operator controlling up to ten receivers or equipment at the same time.

**Labels & Accessories** - The system is standard-equipped with pushbutton labels, lanyard, vinyl casing, receiver mounting bracket, and output cable. Magnet mount, belt clip, waist belt, rubber guard, TAC, charging station, miniature indicator light and buzzer are optional.

**Worldwide Approvals** - The Flex ECO systems are fully tested and certified in accordance with the FCC Part-15 Rules and European Safety Standards, such as the EN 60204-32 and EN 13849-1 Category PLd.



## General Specifications

**Frequency Range:** 433MHz, 458MHz, 471MHz, 850MHz...

**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:** -116dBm

**Transmitter Voltage:** 3.0VDC

**Output Contact Rating:** 250VAC @ 8A

**Available Voltages:** 24 ~ 48VAC @ 50/60Hz

100 ~ 460VAC @ 50/60Hz

9 ~ 36VDC

**Enclosure Rating:** IP66 / NEMA4

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

**Transmitter Dimensions:** 141mm x 69mm x 38mm (Flex ECO 4 models)

164mm x 69mm x 38mm (Flex ECO 6 models)

187mm x 69mm x 38mm (Flex ECO 8 models)

233mm x 69mm x 38mm (Flex ECO 12 models)

**Receiver Dimensions:** 196mm x 149mm x 85mm (Flex ECO 4 & 6 models)

260mm x 204mm x 83mm (Flex ECO 8 & 12 models)

120mm x 90mm x 55mm (MRX)

**Transmitter Weight:** 203g / 7.2oz include batteries (Flex ECO 4 models)

226g / 8.0oz include batteries (Flex ECO 6 models)

250g / 8.8oz include batteries (Flex ECO 8 models)

293g / 10.3oz include batteries (Flex ECO 12 models)

**Receiver Weight:** 1.5kg / 3.3lb include cable (Flex ECO 4 & 6 models)

2.5kg / 5.5lb include cable (Flex ECO 8 & 12 models)

900g / 2.0lb include cable (MRX)

## Standard Models

**Flex ECO 4S:** Four (4) one step/speed pushbuttons

**Flex ECO 6S:** Six (6) one step/speed pushbuttons

**Flex ECO 8S:** Eight (8) one step/speed pushbuttons

**Flex ECO 12S:** Twelve (12) one step/speed pushbuttons

**Flex ECO 4X:** Four (4) two steps/speeds pushbuttons

**Flex ECO 6X:** Six (6) two steps/speeds pushbuttons

**Flex ECO 8X:** Eight (8) two steps/speeds pushbuttons

**Flex ECO 12X:** Twelve (12) two steps/speeds pushbuttons

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