



# Radio Control Systems



UK



## Introducing Flex Eco Remote Control for Overhead Lifting Equipment & Machinery

### FLEX Eco General Features

#### Advanced Controls

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

#### Over One Million Unique ID Codes

Each Flex ECO system has its own unique identification code, never repeats.

#### 62 User Programmable Channels

Advanced synthesized RF controls with 62 built-in channels set via push-buttons and dials.

#### 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.

#### Ultra Reliable Push-buttons

The transmitter push-buttons are ultra durable and reliable for more than one million press cycles.

#### Durable & Rugged Enclosures

All enclosures are made from industrial strength nylon and fibreglass 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 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.

#### Abundant Programmable Functions

All functions and settings are easily set via push-buttons, dials, jumpers, and in-house designed programmer unit. Customized functions can also be added upon request.

#### Full System Compatibility

The software and hardware are fully compatible regardless of model type, minimizing spare parts inventory.

**Pre-wired Output Cable**  
A pre-wired cable is standard equipment on all Flex ECO systems.

#### 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 a 3-stage 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 Flex ECO system is standard-equipped with legends, lanyard, vinyl casing, receiver mounting bracket, and output cable. \*Special magnet mount, belt clip, waist belt, rubber guard, 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.



# FLEX ECO

- ▶ Ergonomic, Compact & Lightweight
- ▶ Durable & Rugged
- ▶ Safe & Reliable
- ▶ Fully Sealed Enclosures (IP66/NEMA4)
- ▶ 62 User Programmable Channels
- ▶ Wireless Remote Pairing
- ▶ Unique Receiver Mounting Brackets
- ▶ Transmitter Access Card (TAC)
- ▶ Receiver Status Feedback

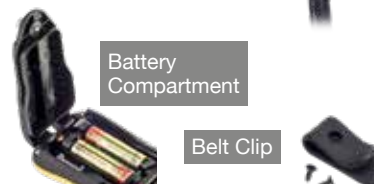
## General Specifications

<b>Frequency Range:</b>	433MHz, 458MHz
<b>Modulation:</b>	Digital frequency modulation based on Manchester Code, 20bit address, 32bit CRC Parity Check and Hamming Code
<b>Encoding / Decoding Reference:</b>	Advanced microprocessor controlled
<b>Operating Range:</b>	>100 Meters / 300 Feet
<b>Frequency Control:</b>	Synthesized PLL
<b>Responding Time:</b>	40mS (average)
<b>Receiver Sensitivity:</b>	-116dBm
<b>Transmitter Voltage:</b>	3.0VDC
<b>Output Contact Rating:</b>	250VAC @ 8A
<b>Receiver Voltages:</b>	<b>Flex ECO 4 &amp; 6 models:</b> •24VAC @ 50/60Hz. •42VAC @ 50/60Hz. •48VAC @ 50/60Hz. •110~120VAC @ 50/60Hz. •220~240VAC @ 50/60Hz. •380~400VAC @ 50/60Hz. 410~460VAC @ 50/60Hz. 9~36VDC <b>Flex ECO 8 &amp; 12 models:</b> 110~120/220~240/380~400/410~460VAC @ 50/60Hz. •24/42/48VAC @ 50/60Hz. •9~36VDC
<b>Enclosure Rating:</b>	IP66 / NEMA4
<b>Operating Temperature:</b>	-25°C ~ 75°C / -13°F ~ 167°F
<b>Transmitter Dimensions:</b>	
<b>Flex ECO 4 models:</b>	141mm (L) x 69mm (W) x 38mm (H)
<b>Flex ECO 6 models:</b>	164mm (L) x 69mm (W) x 38mm (H)
<b>Flex ECO 8 models:</b>	187mm (L) x 69mm (W) x 38mm (H)
<b>Flex ECO 12 models:</b>	233mm (L) x 69mm (W) x 38mm (H)
<b>Receiver Dimensions:</b>	
<b>Flex ECO 4 &amp; 6 models:</b>	196mm (L) x 149mm (W) x 85mm (H)
<b>Flex ECO 8 &amp; 12 models:</b>	260mm (L) x 204mm (W) x 83mm (H)
<b>Transmitter Weights:</b>	
<b>Flex ECO 4 models:</b>	203g / 7.2oz (include batteries)
<b>Flex ECO 6 models:</b>	226g / 8.0oz (include batteries)
<b>Flex ECO 8 models:</b>	250g / 8.8oz (include batteries)
<b>Flex ECO 12 models:</b>	293g / 10.3oz (include batteries)
<b>Receiver Weights:</b>	
<b>Flex ECO 4 &amp; 6 models:</b>	1.5kg / 3.3lb (include output cable)
<b>Flex ECO 8 models:</b>	2.5kg / 5.5lb (include output cable)
<b>Flex ECO 12 models:</b>	2.8kg / 6.2lb (include output cable)
Reel UK reserve the right to change model specifications, colours or materials without prior notice	

### Standard Models



### Accessories



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