ARC
ADVANCED RADIOTECH CORPORATION

FLEX
JX Series

Industrial Radio Control Systems

- Ergonomic & Lightweight
- Durable & Rugged
- Safe & Reliable
- Unique I-CHIP Design
- Infrared Functions
- LCD Readouts
- 62 User Programmable Channels
- Digital and Analog Outputs
- Fully Sealed Enclosures (IP-66)
- Transceiving RF Modules
- In-house Designed Joysticks
- Automatic Channel Scanning

Transceiving RF modules - The Flex JX system is capable of two-way communication between the transmitter and receiver.

LCD Readouts - All settings and system status information are displayed and executed via the LCD screen on the transmitter and in receiver.

Transmitter Tilt Function - The transmitter is embedded with special tilt switch to guard against accidental crane movements when the transmitter is dropped or tilted beyond a certain angle (user programmable).

Goretex Vent - The transmitter is equipped with special Goretex vent to guard against water/vapor buildups inside the transmitter enclosure.

Infrared Startup and Range Limiting Functions - The transmitter is standard-equipped with infrared sensors for functions such as the infrared system startup and infrared range limiting operations.

62 User Programmable Channels - Advanced synthesized RF controls with 62 built-in channels set directly via the LCD screens.

Automatic Channel Scanning Receiver - The receiver is able to search and lock onto the newly selected transmitter channel.

Over One Million Unique ID Codes (20 Bit) - Each Flex JX system has its own unique identification code, never repeats.

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

Unique I-CHIP Design - The I-CHIP functions similarly to a SIM card. Information and settings can be transferred between transmitters without the hassle of resetting the spares.

Reliable Joysticks (digital & analog) - The in-house designed joysticks are rated for more than five million operating cycles. The defined steps provide positive feedback even wearing gloves. The unique design also provides easy switching between digital and analog outputs.

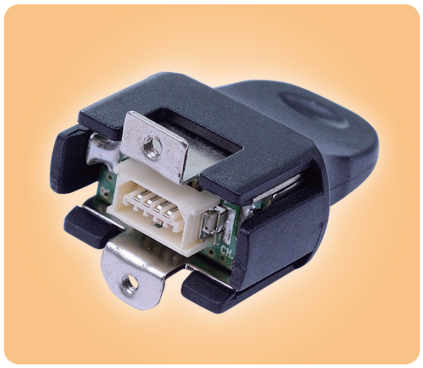
Durable & Rugged Enclosures - All enclosures are made from industrial-strength nylon and fiberglass composite materials, not ABS plastic. All housings meet the IP-66/NEMA-4 requirements and are highly resistant to dirt, liquid, acid, grease and oil penetration.

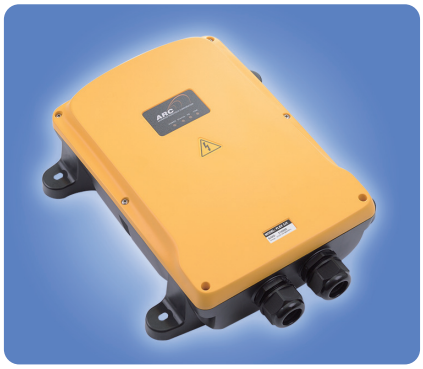
Low Power Consumption - The ultra power-saving transmitter provides more than 30 hours of continuous operation between recharging.

Abundant Programmable Functions - The system is standard-equipped with hundreds of function settings to suit the majority of crane applications. Custom functions can also be added upon request.

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

Worldwide Approvals - The Flex JX systems are fully tested and certified in accordance with the FCC Part-15 Rules and EU Safety Standards such as the EN 301 489-1&3, EN 300 220-1&2, EN 60204-32, EN 60950, EN 60529, EN 13849-1 Category PLd, etc...





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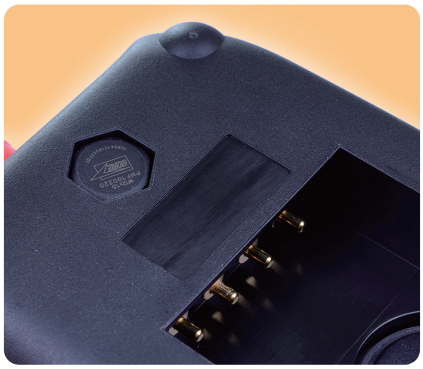
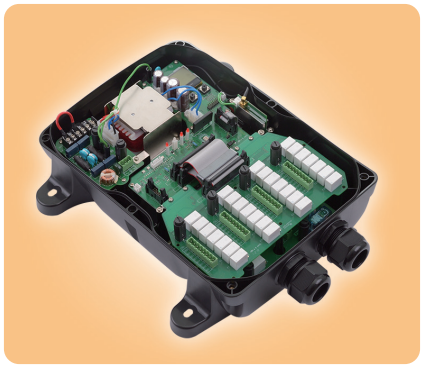
Feel the Difference!





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: 40~60mS
Receiver Sensitivity: -116dBm
Operating Temperature: -25°C ~ 75°C / -13°F ~ 167°F
Digital Outputs: Relays 250VAC @ 8A
Analog Outputs: Voltage 0~10V, Current 0~20mA and PFM

Enclosure Type: Nylon and Fiberglass Composite
Enclosure Rating: IP-66 / NEMA-4
Transmitter Voltage: 6.0VDC
Receiver Voltages: 24 ~ 48VAC @ 50/60Hz
110 ~ 460VAC @ 50/60Hz
9 ~ 36VDC
Transmitter Dimensions: 247mm (L) x 145mm (W) x 180mm (H)
Receiver Dimensions: 345mm (L) x 240mm (W) x 108mm (H)
Transmitter Weight: 1.5kg / 3.3lb (include battery pack)
Receiver Weight: 3.6kg / 8.0lb

Standard Models

Flex 2JX (digital): Two dual-axis 2~5 steps joysticks + two buttons or rocker switches + Start button + Stop button + Power key switch
Flex 2JX (analog): Two dual-axis stepless joysticks + two buttons or rocker switches + Start button + Stop button + Power key switch

Optional Features

Tandem Function: This function allows one operator controlling two cranes at the same time via a special tandem key switch
Random Access Function: This function allows multiple operators randomly controlling multiple cranes on a first come - first served basis

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