

ACCESSORIES & CONTROLS

Rev 2.6 - 2026 Series

RADIO REMOTE CONTROL

MODEL SERIES: IND-RRC-W8 | DOCUMENT: TECHNICAL DATASHEET

3D ISOMETRIC ENGINEERING SCHEMATIC



Engineered & Manufactured in India by Induct Crane System Pvt. Ltd. | Standard: IS 3177 / IS 807 / FEM 2m

CONTROL TYPE

Wireless Industrial Radio Remote

TRANSMITTER

8-Button Ergonomic Handheld

COMPATIBILITY

Cranes & Hoisting Equipment

OPERATION

Multi-Motion Stepped Control

EXECUTIVE OVERVIEW

Induct Crane Industrial Radio Remote Controls are wireless handheld transmitter and receiver systems designed for flexible, ergonomic, and safe operation of cranes and hoisting equipment. By eliminating fixed pendant cables, the operator gains complete freedom of movement and can position themselves at the safest vantage point with optimal line of sight to the suspended load.

1. PRODUCT OVERVIEW & DESIGN CHARACTERISTICS

Induct Crane Industrial Radio Remote Controls are wireless handheld transmitter and receiver systems designed for flexible, ergonomic, and safe operation of cranes and hoisting equipment. By eliminating fixed pendant cables, the operator gains complete freedom of movement and can position themselves at the safest vantage point with optimal line of sight to the suspended load.

TYPICAL APPLICATION & PURPOSE

Wireless multi-motion operation of EOT overhead cranes, gantry cranes, semi-gantry cranes, jib cranes, and electric wire rope / chain hoists across industrial workshops.

OPERATING ENVIRONMENT

Indoor manufacturing plants, steel warehouses, heavy fabrication bays, foundries, and assembly workshops (-10 deg C to +55 deg C).

2. STRUCTURAL CONFIGURATIONS & ENGINEERING VARIANTS

8-BUTTON MULTI-MOTION HANDHELD TRANSMITTER (IND-RRC-W8)

Ergonomic handheld transmitter with dual-speed stepped push buttons for Up/Down, Left/Right, Forward/Reverse motions, Start/Alarm, and Emergency Stop.

Compatibility: EOT Cranes, Gantry Cranes, Jib Cranes & Electric Hoists

INDUSTRIAL RECEIVER & MOUNTING ASSEMBLY

Heavy-duty receiver unit mounted on crane bridge or hoist panel, providing seamless dry-contact relay integration with crane electrical switchgear.

Integration: Standard 415V / 230V / 110V Crane Control Circuits

3. CODIFIED DESIGN STANDARDS & COMPLIANCE

IS 13947 / IEC 60947	Low-Voltage Switchgear and Controlgear Industrial Apparatus Standards
IS / IEC 60529	Degrees of Protection Provided by Enclosures (Industrial Seal & Resistance)
IS 3177: 1999	Code of Practice for Overhead Travelling Cranes - Electrical Equipment
FEM 9.511 / 2m	Rules for the Design of Series Hoisting Appliances - Control Systems

4. COMPREHENSIVE TECHNICAL SPECIFICATIONS

ENGINEERING PARAMETER	MANUFACTURING SPECIFICATION / VALUE RANGE
Product Classification	Industrial Radio Remote Control System
System Composition	Handheld Transmitter Unit & Matched Receiver Unit
Control Interface	Ergonomic Push Buttons with Tactile Mechanical Feedback
Available Control Functions	Up, Down, Left, Right, Forward, Reverse, Start, 2nd Speed
Emergency Stop Mechanism	Side-Mounted Rotary Twist-to-Reset Emergency Stop Switch
Status Indication	Multi-LED Status & Battery / Power Level Display Indicators
Motion Control Method	Dual-Speed Stepped Switching (Inching & Full Speed)
Equipment Compatibility	EOT Cranes, Gantry Cranes, Jib Cranes, Hoists & Monorails
Enclosure Construction	Rugged Impact-Resistant Casing with Protective Bumper Base
Power Supply Integration	Direct Interface with Crane / Hoist Control Panels
Operator Freedom	Full Unrestricted Mobility with 360 deg Line of Sight
Operational Safety	Zero Drag Cables Eliminates Tripping & Pinching Hazards

5. MAJOR ENGINEERING COMPONENTS & NUMBERED BREAKDOWN

01 ERGONOMIC TRANSMITTER Rugged, lightweight handheld casing shaped for single-handed or two-handed i	02 DUAL-SPEED BUTTONS Tactile push buttons for precision micro-inching and high-speed transit (Up/
03 EMERGENCY STOP SWITCH Dedicated rotary twist-to-reset mushroom stop switch for instant system powe	04 LED STATUS INDICATORS Top-mounted multi-LED indicators displaying transmitter power, link status,
05 PROTECTIVE BUMPER BASE Heavy-duty shock-absorbing lower stand allowing upright placement on worksho	06 CRANE RECEIVER UNIT Multi-relay output receiver enclosure for direct hardwiring into the crane e
07 SECURITY START / KEY Dedicated start / function push buttons preventing unauthorized or accidenta	

6. APPLICATIONS & INDUSTRIES SERVED	7. SAFETY & PROTECTION SYSTEMS
- Overhead EOT Cranes (Single & Double Girder) - Gantry & Goliath Portal Cranes - Semi-Gantry & Wall-Travelling Cranes - Electric Wire Rope & Chain Hoists - Heavy Fabrication & Assembly Bays	[+] Instant Twist-to-Reset Emergency Stop Cutoff [+] Dual-Speed Stepped Inching for Delicate Positioning [+] Zero Cable Snagging or Tripping Hazards [+] Visual Multi-LED Diagnostics & Power Monitoring [+] Safe Stand-Off Distance Away from Suspended Loads

8. ENGINEERING & PROJECT CUSTOMIZATION

- [*] Multi-Motion Integration: Configured for 2-motion, 4-motion, or 6-motion crane installations (Hoisting, Cross Travel, Long Travel).
- [*] Tandem Crane Pairing: Multi-transmitter and multi-receiver setups for master-slave tandem crane operations.
- [*] Protective Holster & Lanyards: Heavy-duty waist belt, neck lanyard, and rubber protective sleeve for harsh plant environments.
- [*] Auxiliary Hoist Switching: Dedicated selector functions for dual hoist systems (Main Hoist / Aux Hoist).

9. TECHNICAL & SITE INSTALLATION NOTES

- Transmitter should be placed in its dedicated protective charging / storage cradle when not in active operation.
- Ensure direct line-of-sight awareness to the load at all times during crane travel and lifting motions.
- Compatible with all standard Induct Crane electrical control panels and retrofittable to existing cranes.

REQUEST A TECHNICAL QUOTATION & GA DRAWING

Contact our application engineering team for site-specific general arrangement (GA) drawings and quotations:

RAJKOT HEAD OFFICE & MANUFACTURING

Plot No. 6, Shivam Ind. Zone 4, Lodhika GIDC, Rajkot, Gujarat - 360021

Phone: +91 92658 85265, +91 99743 43099 | Email: sales@inductcranesystem.com

NORTH INDIA SALES & SERVICE OFFICE

Unit-2, E-20, Chakeri-2 Industrial Area, Chakeri, Kanpur, Uttar Pradesh

Phone: +91 75250 29204 | Web: https://inductcranesystem.com

Contact our engineering team for project-specific technical requirements.