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SPABOY HS-10

SPABOY HS-10 Industrial Wireless Crane Remote Control System User Manual

Model: HS-10 | Brand: SPABOY

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the SPABOY HS-10 Industrial Wireless Crane Remote Control System. This system is designed for reliable and safe remote control of industrial hoists and cranes, offering 10 channels for various functions.

Please read this manual thoroughly before operating the device to ensure proper usage and to prevent damage or injury.

2. PRODUCT OVERVIEW AND FEATURES

The SPABOY HS-10 is a robust wireless remote control system for industrial applications, featuring a single transmitter and a receiver unit. It is engineered for durability and reliable performance in demanding environments.



Figure 2.1: SPABOY HS-10 Wireless Crane Remote Control System (Transmitter and Receiver)

Key Features:

- **10 Control Channels:** Dedicated buttons for UP, DOWN, START, STOP, WEST, EAST, SOUTH, NORTH, and two auxiliary functions (AUX 1, AUX 2).
- **Extended Operating Range:** Reliable wireless communication up to 150 meters (approximately 492 feet).
- **Robust Construction:** Designed for industrial use with an IP65 protection grade, ensuring resistance to dust and water ingress.
- **Wide Temperature Tolerance:** Operates effectively in temperatures ranging from -30°C to +85°C (-22°F to +185°F).
- **High Security:** Utilizes non-repeating code technology with up to 4.2 billion sets, preventing signal interference.
- **Anti-interference Design:** Engineered to minimize signal disruption in industrial environments.
- **Compact and Lightweight:** The transmitter is designed for comfortable handheld operation.

3. COMPONENTS

The HS-10 system includes the following main components:

- **Transmitter Unit:** Handheld remote control with 10 function buttons.
- **Receiver Unit:** Industrial-grade receiver box for connection to the hoist/crane control system.
- **Power Cable:** Integrated wiring for the receiver unit.
- **User Manual:** This document.

Note: The transmitter requires two 1.5V AA/AAA batteries (not included).



Figure 3.1: HS-10 Transmitter Unit



Figure 3.2: HS-10 Receiver Unit (Side View)

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of the HS-10 system. Installation should only be performed by qualified personnel.

4.1 Receiver Installation:

1. **Mounting:** Securely mount the receiver unit in a location that is protected from excessive vibration, heat, and direct impact, yet allows for clear signal reception. Ensure the antenna (if external) is unobstructed.
2. **Power Connection:** Connect the receiver to a power source matching its specified voltage (AC/DC24V, 110-120VAC, 220-230VAC, or 380VAC, depending on your model). Refer to the wiring diagram on the receiver unit for correct connections.
3. **Control Wiring:** Connect the receiver's output wires to the corresponding control inputs of your hoist or crane system. Each wire is typically color-coded and labeled for specific functions (e.g., UP, DOWN, START, STOP, etc.). Consult your hoist/crane's wiring diagram for compatibility.
4. **Verify Connections:** Double-check all power and control wiring before applying power to the system.



Figure 4.1: Receiver Unit with Wiring Diagram

4.2 Transmitter Battery Installation:

1. Locate the battery compartment on the back of the transmitter unit.
2. Open the compartment cover.
3. Insert two 1.5V AA/AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

5. OPERATING INSTRUCTIONS

Once the system is installed and powered, follow these steps for operation:

1. **Power On:** Ensure the receiver unit is powered on and its indicator light (if present) is active.
2. **Transmitter Activation:** Press the 'START' button on the transmitter to activate it. The transmitter's indicator light should illuminate.
3. **Function Control:**
 - **UP / DOWN:** Control vertical movement of the hoist.
 - **WEST / EAST / SOUTH / NORTH:**Control horizontal movement or trolley direction (if applicable).
 - **AUX 1 / AUX 2:** These buttons can be configured for additional functions depending on your

hoist/crane system's capabilities.

- **STOP:** Immediately halts all controlled operations. This is a critical safety function.

4. **Emergency Stop:** In case of an emergency, press the large red 'STOP' button on the transmitter.

5. **Power Off:** To power off the transmitter, press the 'STOP' button. For extended periods of non-use, remove the batteries from the transmitter.

Safety Precaution: Always ensure a clear line of sight to the load and surrounding area during operation. Never operate the system if you suspect a malfunction or if the signal is intermittent.

6. SPECIFICATIONS

Technical specifications for the SPABOY HS-10 Industrial Wireless Crane Remote Control System:

Parameter	Value
Model	HS-10
Control Channels	10 (UP/DOWN/START/STOP/WEST/EAST/SOUTH/NORTH/AUX1/AUX2)
Transmitter Power Source	2 x 1.5V AA/AAA Batteries (not included)
Receiver Power Source	AC/DC24V (Specific model: 110-120VAC)
Working Distance	Up to 150 meters (approx. 492 feet)
Working Temperature	-30°C to +85°C (-22°F to +185°F)
Receiving Sensitivity	115dBm
Protection Grade	IP65
Non-repeating Code Sets	Up to 4.2 billion
Manufacturer	SPABOY
Country of Origin	China

7. TROUBLESHOOTING

If you encounter issues with your HS-10 system, refer to the following common problems and solutions:

- **No Response from Hoist/Crane:**

- Check if the receiver unit is powered on and its indicator light is active.
- Ensure the transmitter batteries are correctly installed and not depleted. Replace if necessary.
- Verify that the transmitter is activated (press 'START').
- Check all wiring connections between the receiver and the hoist/crane for looseness or damage.
- Ensure you are within the operating range (150m) and there are no major obstructions.
- Check for strong electromagnetic interference in the operating area.

- **Intermittent Control:**

- Low transmitter battery power. Replace batteries.

- Operating at the edge of the maximum range. Move closer to the receiver.
- Temporary signal interference. Try moving to a different position.
- **Specific Function Not Working:**
 - Verify the corresponding wire from the receiver to the hoist/crane is correctly connected and not damaged.
 - Ensure the hoist/crane itself is functioning correctly for that specific movement when controlled manually (if applicable).

If problems persist after following these steps, contact customer support.

8. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your HS-10 system.

- **Cleaning:** Keep both the transmitter and receiver units clean and free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace transmitter batteries promptly when the low battery indicator appears or if control becomes unreliable. Always use fresh, high-quality batteries.
- **Cable Inspection:** Periodically inspect all wiring and cables connected to the receiver unit for signs of wear, fraying, or damage. Replace damaged cables immediately.
- **Environmental Protection:** Ensure the receiver unit's IP65 rating is maintained by keeping all covers and cable glands securely fastened.
- **Storage:** When not in use for extended periods, store the transmitter in a dry, cool place, and remove its batteries to prevent leakage.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your point of purchase or the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: SPABOY

Please refer to the product packaging or the seller's information for specific contact details and warranty terms.