

## GoolRC FS-R7P

# GoolRC FS-R7P Flysky Receiver Instruction Manual

Model: FS-R7P

## 1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your GoolRC FS-R7P Flysky 7-channel 2.4Ghz RC Receiver. Please read this manual thoroughly before using the product to ensure safe and efficient operation.



Image 1: The GoolRC FS-R7P Flysky Receiver, a compact 7-channel unit with an external antenna.

## 2. KEY FEATURES

- 7-Channel Receiver:** Provides seven channels for comprehensive control of RC models.
- ANT Protocol:** Utilizes the ANT communication protocol for reliable signal transmission.
- Compact Design:** Small form factor (35mm x 13.3mm x 23.3mm) for easy integration into various models.

- **External Single Antenna:** Enhances signal reception and range.
- **Versatile Compatibility:** Suitable for a wide range of RC cars, boats, planes, and other models, compatible with Flysky FS-G7P and other ANT protocol transmitters.
- **Multiple Signal Outputs:** Supports PWM, PPM, i-BUS, and S.BUS signals.
- **Channel Expansion:** i-BUS mode allows for channel expansion, increasing versatility.

### 3. COMPONENTS AND LAYOUT

Familiarize yourself with the receiver's components and port layout before installation.



Image 2: Detailed diagram illustrating the port layout and components of the FS-R7P receiver.

1. CH1/P (PWM/PPM) Port
2. CH2-CH5 Ports
3. BIND Interface
4. BVD/VCC (Battery Voltage Detection/Power Supply Interface)
5. CH7 Port
6. SERVO Port (i-BUS/S.BUS)
7. LED Indicator
8. Antenna
9. BIND Button
10. SENS Interface
11. CH6 Port
12. Signal Pin
13. + (Power Anode)
14. - (Power Cathode)

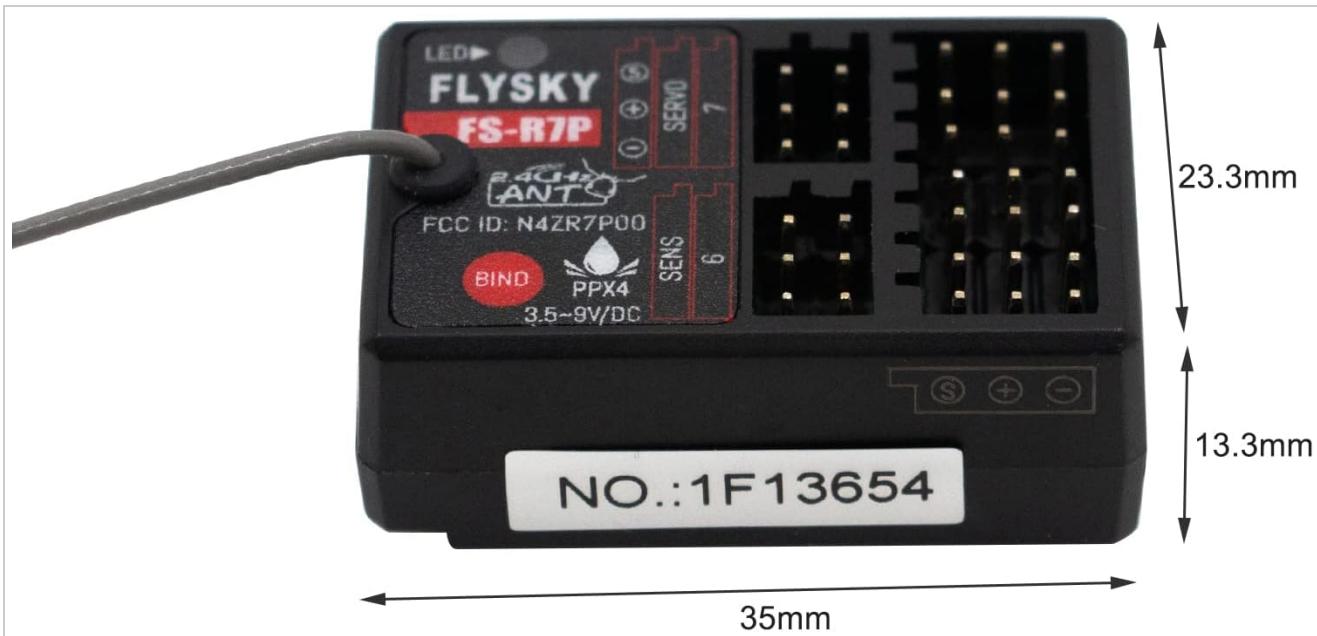


Image 3: Physical dimensions of the FS-R7P receiver, showing its compact size.

## 4. SETUP AND BINDING

### 4.1. Installation

Mount the receiver securely in your RC model, ensuring the antenna is positioned away from metal parts and other electronic components for optimal signal reception. The compact size allows for flexible placement.

### 4.2. Connecting Servos and Power

Connect your servos and other components to the appropriate channels (CH1-CH7) on the receiver. Ensure correct polarity when connecting power to the BVD/VCC interface (3.5-9V DC).

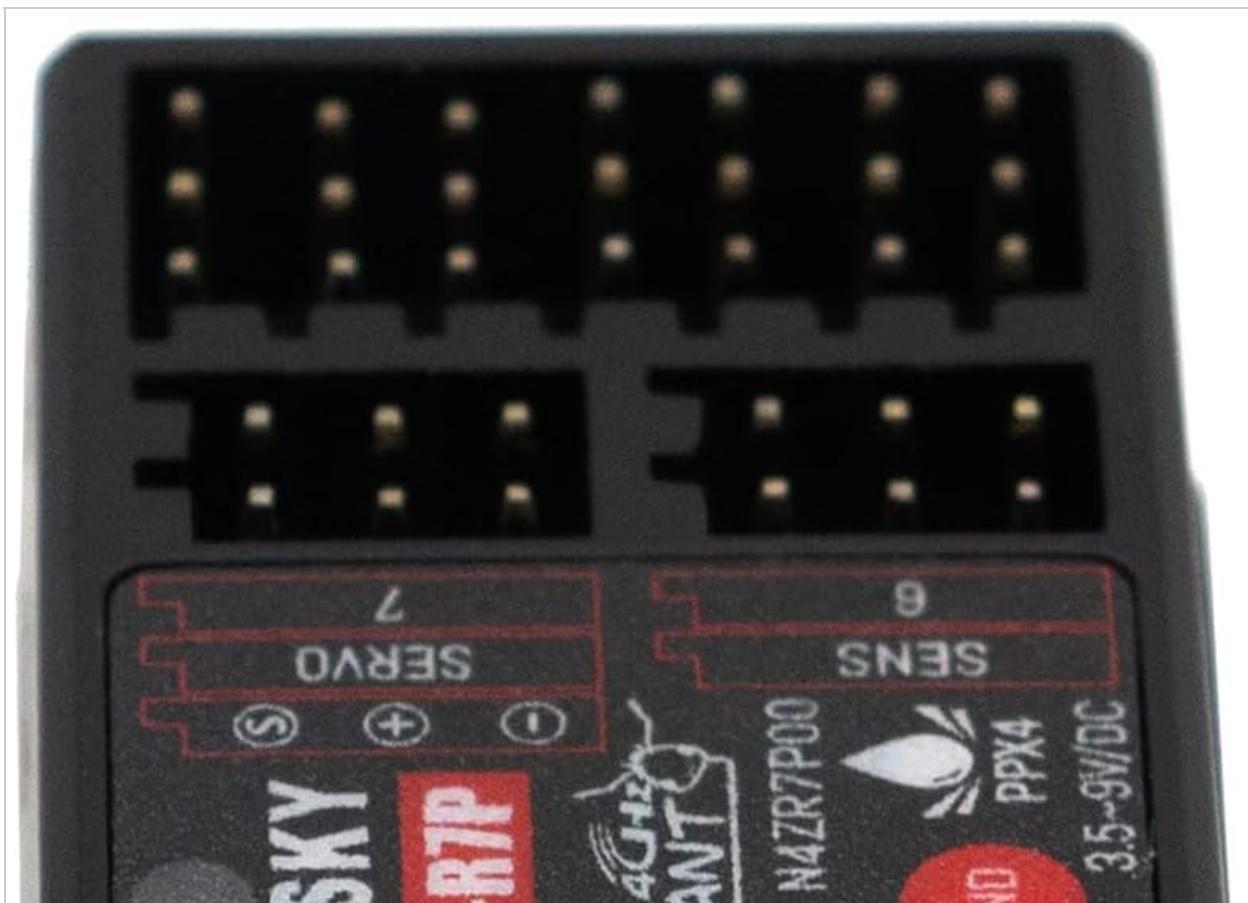




Image 4: Top view of the FS-R7P receiver, showing the servo and power connection ports.

#### 4.3. Binding Procedure

To establish communication between the receiver and your Flysky FS-G7P transmitter (or compatible transmitter), follow these steps:

1. Ensure your transmitter is powered off.
2. Connect the binding plug (often included with the receiver or transmitter) to the **BIND** interface on the FS-R7P receiver.



Image 5: The FS-R7P receiver shown with a binding plug inserted into the BIND port.

3. Apply power to the receiver (e.g., from the ESC or a separate battery). The LED on the receiver should flash rapidly, indicating it is in binding mode.
4. While holding the BIND button on your transmitter (refer to your transmitter's manual for exact location), power on the transmitter.
5. The LED on the receiver should stop flashing and remain solid, indicating successful binding.
6. Release the BIND button on the transmitter, then power off both the receiver and the transmitter.
7. Remove the binding plug from the receiver.
8. Power on the transmitter first, then the receiver. The receiver LED should be solid, confirming a successful connection.

*Note: Always power on your transmitter before the receiver and power off the receiver before the transmitter to prevent unintended model movement.*

## 5. OPERATION

### 5.1. Signal Output Modes

The FS-R7P receiver supports various signal output modes:

- **PWM (Pulse Width Modulation):** Standard servo control signals, available on CH1-CH7.
- **PPM (Pulse Position Modulation):** A single wire carries all channel data, available from CH1.
- **i-BUS/S.BUS:** Digital serial communication protocols for advanced setups, supporting channel expansion. Connect to the SERVO interface.

Refer to your flight controller or ESC manual for compatible signal input types and configure your transmitter accordingly.

## 5.2. Failsafe Function

The failsafe function is crucial for safety. In case of signal loss, the receiver will move all channels to a pre-set position (e.g., throttle to zero, steering to neutral). Consult your transmitter's manual for instructions on setting failsafe positions.

## 6. MAINTENANCE

- Keep Clean:** Regularly clean the receiver with a soft, dry cloth. Avoid using solvents or harsh chemicals.
- Protect from Moisture:** The receiver has an IPX4 rating, meaning it is resistant to splashing water. However, avoid submerging it or exposing it to heavy rain.
- Antenna Care:** Ensure the antenna is not cut, bent sharply, or damaged. A damaged antenna can significantly reduce range and signal quality.
- Secure Connections:** Periodically check all connections to ensure they are secure and free from corrosion.
- Storage:** Store the receiver in a dry, cool place away from direct sunlight and extreme temperatures when not in use.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Receiver LED not lighting up.	No power or incorrect power connection.	Check power source and ensure correct polarity (3.5-9V DC).
Receiver LED flashing rapidly.	Receiver is in binding mode or not bound.	Perform the binding procedure as described in Section 4.3.
No control response after binding.	<ul style="list-style-type: none"><li>Incorrect signal output mode selected on transmitter.</li><li>Servos connected to wrong channels.</li><li>Failsafe activated.</li></ul>	<ul style="list-style-type: none"><li>Verify transmitter output mode (PWM, PPM, i-BUS/S.BUS) matches receiver setup.</li><li>Ensure servos are connected to the correct channels.</li><li>Check failsafe settings on the transmitter.</li></ul>
Reduced range or intermittent signal.	<ul style="list-style-type: none"><li>Antenna obstruction or damage.</li><li>Interference from other electronics.</li><li>Low battery voltage.</li></ul>	<ul style="list-style-type: none"><li>Reposition or inspect antenna for damage.</li><li>Ensure receiver is mounted away from noisy components.</li><li>Check and charge batteries for both transmitter and receiver.</li></ul>

## 8. SPECIFICATIONS

Feature	Detail
Model	FS-R7P

Feature	Detail
Channels	7
Protocol	ANT
Frequency	2.4GHz
Input Voltage	3.5-9V DC
Antenna Type	Single External Antenna
Signal Output	PWM, PPM, i-BUS, S.BUS
Dimensions (L x W x H)	35mm x 13.3mm x 23.3mm (1.38 x 0.52 x 0.92 inches)
Weight	0.634 ounces (approx. 18g)
Water Resistance	IPX4 (Splash-proof)
Recommended Age	14 years and up
Manufacturer	GoolRC
ASIN	B09SLMYFX1
Item Model Number	NEU9615145849491SN

## 9. WARRANTY AND SUPPORT

GoolRC products are manufactured to high quality standards. For warranty information, please refer to the terms and conditions provided at the point of purchase or contact GoolRC customer support directly. If you encounter any issues or require technical assistance, please reach out to GoolRC customer service for prompt resolution.

*Contact information for support can typically be found on the manufacturer's official website or through your retailer.*



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### Related Documents - FS-R7P

	<p><a href="#">FS-G7P User Manual - Flysky Automatic Frequency Hopping Digital System</a></p> <p>Comprehensive user manual for the Flysky FS-G7P transmitter and FS-R7P receiver, detailing setup, operation, functions, and specifications of the 2.4GHz ANT protocol radio control system.</p>
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 <p>Quick Start Guide FS-G7P+</p> <p>www.Flysky.com Copyright © 2020 Flysky Technology Co., Ltd.</p>	<p><a href="#">Flysky FS-G7P+ Quick Start Guide</a></p> <p>Quick Start Guide for the Flysky FS-G7P+ RC transmitter system. Covers setup, operations, binding, calibration, failsafe, firmware updates, and specifications.</p>
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 <p>Noble Pro USER MANUAL</p> <p>www.Flysky.com Copyright © 2020 Flysky Technology Co., Ltd.</p>	<p><a href="#">Flysky Noble Pro User Manual - Advanced Radio Control System Guide</a></p> <p>Comprehensive user manual for the Flysky Noble Pro radio control system, detailing setup, operation, functions, specifications, and safety guidelines for RC models. Learn to use the transmitter, receivers, and advanced features for optimal performance.</p>
 <p>FLYSKY FS-MG11-BT-BS 2.4GHz Radio Control System Quick Start Guide</p>	<p>Quick start guide and specifications for the FLYSKY FS-MG11-BT-BS 2.4GHz radio control system, including setup, operation, and safety precautions.</p>
 <p>Flysky FS-G7P Radio Control System Quick Start Guide</p>	<p>A quick start guide for the Flysky FS-G7P radio control system, covering installation, operation, binding, calibration, failsafe settings, and specifications for car and boat models.</p>