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› GoolRC Flysky FS-R4P Receiver User Manual

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Model: FS-R4P

INTRODUCTION

The GoolRC Flysky FS-R4P Receiver is a compact and efficient 2.4GHz 4-channel receiver designed for use with RC cars and boats. It utilizes the ANT protocol for reliable communication and offers PWM output for enhanced control flexibility. This manual provides essential information for setting up, operating, and maintaining your FS-R4P receiver.



Figure 1: GoolRC Flysky FS-R4P Receiver. This image shows the compact design of the receiver with its branding and voltage specifications clearly visible.

FEATURES

- **4 PWM Channels:** Provides enhanced control and flexibility for various RC applications.
- **2.4GHz Wireless Frequency:** Ensures strong and stable signal reception and transmission.
- **ANT Wireless Protocol:** Offers reliable and efficient data communication.
- **Built-in Single Antenna:** Ensures consistent performance and reduces the risk of signal loss.
- **PWM Data Port:** Allows for easy and convenient data exchange and device connectivity.
- **Compact Design:** Ultra-small volume and ultra-light weight, effectively saving space and reducing the load on your RC model.

Mini receiver

Ultra-small volume and ultra-light weight, effectively saving space and reducing the load of goods

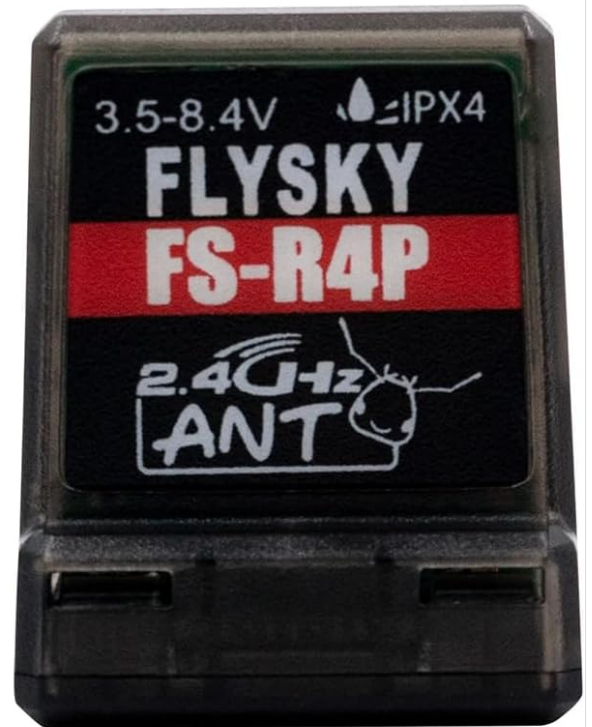


Figure 2: The FS-R4P Mini Receiver's compact size. This image illustrates the small form factor of the receiver, highlighting its suitability for various RC models, shown alongside a child working on an RC car.

COMPATIBILITY

The FS-R4P receiver is compatible with Flysky radio transmitters that use the ANT protocol. This includes models such as the Flysky FS-G7P, FS-ST8, FS-MG41, and FS-MG4.

FS-R4P



FS-R4P based on ANT protocol is a receiver which provides four channels. It is equipped with a single antenna, it offers PWM data output and allows for data exchange and device connectivity, featuring the compact design. FS-R4P can be adapted to a variety of vehicle models.

**Compatible with Transmitters:
Adapts transmitters with ANT protocol, such as Flysky FS-G7P FS-ST8 Radio Transmitter.**



FS-G7P



FS-ST8

Figure 3: Compatibility overview for the FS-R4P receiver. This image displays the FS-R4P receiver and examples of compatible Flysky transmitters, specifically the FS-G7P and FS-ST8, emphasizing its ANT protocol compatibility.

Transmitter and Receiver Pairing Compatibility

Refer to the table below for detailed compatibility between various Flysky transmitters and receivers, including the FS-R4P.



The intersection of the x- axis and the y-axis means" match"

Transmitter and Receiver Pairing																
receiver transmitter	ANT (ANT protocol system) The products marked in red are no longer in production															
	HW-709 (bi-directional)	HW-711 (bi-directional)	FS-R4A (bi-directional)	FS-R4A1 (bi-directional)	FS-R4D-ESC (bi-directional)	FS-R7D (bi and unidirectional)	FS-SR12 (bi and unidirectional)	FS-R7V (bi and unidirectional)	FS-R4M (bi and unidirectional)	FS-R7P (bi and unidirectional)	FS-SR8 (bi and unidirectional)	FS-SR8C (bi and unidirectional)	FS-SRM (bi and unidirectional)	FS-R4B (unidirectional)	FS-R4D (unidirectional)	FS-R4P (unidirectional)
FS-G7P (bi and unidirectional)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FS-ST8 (bi and unidirectional)	✗	✗	✓	✓	✗	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
FS-MG7 (bi and unidirectional)	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
FS-HW-G4P (bi-directional)	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✗	✗	✗
FS-MG41 (bi-directional)	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✗	✗	✗
FS-G4P (unidirectional)	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FS-MG4 (unidirectional)	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Note:

"✗" indicates semi-compatible, representing that the basic channel signal output can be used. The details are as follows:

1. One way transmitters match two-way receivers;
2. Some transmitters match gyroscope receivers, barometer receivers, etc. However, they can only be used as ordinary receivers;
3. For FS-R4B and FS-R4P, the one-way mode of the transmitter is used for binding; For HW-709, HW-711,FS-R4A, FS-R4A1 and FS-R4D-ESC the two-way mode of the transmitter is used for binding.

Figure 4: Detailed compatibility matrix for Flysky transmitters and receivers. This table provides a comprehensive guide to which transmitters are compatible with various receivers, including the FS-R4P, indicating full or semi-compatibility.

Note:

- "✓" indicates semi-compatible, representing that the basic channel signal output can be used.
- One-way transmitters match two-way receivers.
- Some transmitters match gyroscope receivers, barometer receivers, etc. However, they can only be used as ordinary receivers.
- For FS-R4B and FS-R4P, the one-way mode of the transmitter is used for binding. For HW-709, HW-711, FS-R4A, FS-R4A1 and FS-R4D-ESC the two-way mode of the transmitter is used for binding.

SETUP AND BINDING

To ensure proper operation, the FS-R4P receiver must be correctly bound to a compatible Flysky transmitter. The binding process typically involves putting both the transmitter and receiver into binding mode. Refer to your specific Flysky

transmitter's manual for detailed binding instructions, as the procedure may vary slightly between models.

Connecting the Receiver

The FS-R4P features a PWM data port for connecting to your RC model's electronic speed controller (ESC), servos, and other components. Ensure all connections are secure and correctly oriented according to your model's wiring diagram.



Figure 5: Close-up view of the FS-R4P receiver's pin connectors. This image clearly shows the PWM output pins, indicating where to connect servos and other components for proper functionality.

Power Supply: The receiver operates within a voltage range of 3.5V to 8.4V. Ensure your power source (e.g., battery eliminator circuit - BEC from ESC, or separate receiver battery) provides voltage within this range to prevent damage.

OPERATION

Once the receiver is successfully bound to your transmitter and all components are connected, you can begin operating your RC model. Ensure the transmitter is powered on first, followed by the receiver. Always perform a range check before operating your model at a distance, especially in new environments.

Signal Range

The FS-R4P receiver offers a ground range of 100 to 300 meters. Factors such as environmental interference, obstacles, and battery levels can affect the actual operational range. Always maintain a clear line of sight to your model and avoid operating near large metal structures or strong electromagnetic sources.

MAINTENANCE

Proper maintenance will extend the lifespan of your FS-R4P receiver and ensure reliable performance.

- **Keep Clean:** Regularly clean the receiver to prevent dust and debris buildup, which can affect performance. Use a soft, dry brush or compressed air.
- **Avoid Moisture:** While the receiver has some water resistance (IPX4 rating), avoid prolonged exposure to water or high humidity. If it gets wet, dry it thoroughly before use.
- **Temperature Control:** Operate and store the receiver within its specified temperature range (-10°C to +60°C). Extreme temperatures can damage internal components.
- **Secure Connections:** Periodically check all wire connections to ensure they are secure and free from corrosion.

TROUBLESHOOTING

If you encounter issues with your FS-R4P receiver, consider the following common troubleshooting steps:

- **No Signal/Loss of Control:**
 - Ensure the receiver is properly bound to the transmitter.
 - Check battery levels of both transmitter and receiver.
 - Verify all connections are secure.
 - Check for potential interference sources in the operating environment.
 - Ensure the antenna is not obstructed or damaged.
- **Intermittent Operation:**
 - Check for loose wiring or damaged connectors.
 - Ensure the receiver is not overheating.
 - Verify the power supply voltage is stable and within the specified range.
- **Servos Not Responding:**
 - Confirm servos are correctly plugged into the PWM channels.
 - Test servos with a different receiver or servo tester to rule out servo issues.
 - Check transmitter settings for channel assignments and endpoints.

If problems persist after attempting these steps, contact GoolRC customer support for further assistance.

SPECIFICATIONS

Parameter	Value
Product Model	FS-R4P
PWM Channel	4
Wireless Frequency	2.4GHz
Wireless Protocol	ANT
Range (Ground)	100~300m
Antenna Type	Built-in single antenna
Power	3.5-8.4V
RSSI	Not Supported
Data Port	PWM
Temperature Range	-10℃ — +60℃
Humidity Range	20% - 95%
Online Update	No
Dimensions	22.6*20.6*25.5mm
Weight	6g
Certification	CE, FCC

Specifications:

Product Model: FS-R4P

PWM Channel: 4

Wireless Frequency: 2.4GHz

Wireless Protocol: ANT

Range: 100~300m (Ground)

Antenna Type: Built-in single antenna

Power: 3.5-8.4V

RSSI: Not Supported

Data port: PWM

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Online Update: No

Dimensions: 22.6*20.6*25.5mm

Weight: 6g

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Figure 6: Dimensional diagram of the FS-R4P receiver. This image provides precise measurements of the receiver, aiding in installation and space planning within RC models.

WARRANTY AND SUPPORT

For warranty information and technical support regarding your GoolRC Flysky FS-R4P Receiver, please refer to the official GoolRC website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

GoolRC Official Website: [GoolRC Store on Amazon](#)

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question