MicroZone MC6C

MicroZone MC6C 2.4G 6-Channel Remote Control System User Manual

Model: MC6C | Brand: MicroZone

1. Introduction

This user manual provides detailed instructions for the MicroZone MC6C 2.4G 6-channel remote control transmitter and receiver system. This system is designed for controlling various remote-controlled models, including fixed-wing airplanes, unmanned aerial vehicles (UAVs), ground vehicles, and ships. Please read this manual thoroughly before operating your MC6C system to ensure safe and correct usage.

2. Product Overview

The MicroZone MC6C is a 2.4GHz 6-channel radio control system featuring FSK modulation for reliable communication. It provides 6 PWM signal outputs and 1 SBUS signal output, offering versatility for various model types. The system includes a transmitter and a compatible receiver (e.g., MC7RB or MC6REmini).

Figure 2.1: The MicroZone MC6C 2.4G 6-channel remote control transmitter and a compatible receiver, along with a neck strap.

Key Features:

- 2.4GHz FHSS (Frequency Hopping Spread Spectrum) technology for interference-free operation.
- 6 proportional channels for precise control.
- Supports 6 PWM signals and 1 SBUS signal output.
- Low voltage alarm with LED indicator and buzzer.
- Suitable for fixed-wing aircraft, UAVs, vehicles, and ships.
- Ground control range exceeding 800 meters.

Figure 2.2: Front view of the MicroZone MC6C transmitter, showing the gimbals, switches, and display panel.

Figure 2.3: Angled view of the MicroZone MC6C transmitter, highlighting the ergonomic design and control layout.

3. Specifications

Parameter	Value
Model	MC6C
RF Range	2401MHz - 2479MHz
RF Power	≤ 100MW
Working Current	< 120MA
Working Voltage	4.5V - 8.5V
Modulation Mode	FSK (Frequency Shift Keying)
Sensitivity	1024
Signal Output	6 PWM signals, 1 SBUS signal
Ground Control Range	> 800m
Low Voltage Alarm	LED indicator and buzzer alarm
Power Supply	6V (4 x 1.5V AA batteries)
Dimensions	180mm x 185mm
Net Weight	426g

Parameter	Value
Authentication Standards	FCC, CE_RED

4. Setup

4.1 Battery Installation

1. Locate the battery compartment on the back of the MC6C transmitter.
2. Open the battery compartment cover.
3. Insert four (4) 1.5V AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

Figure 4.1: Rear view of the MC6C transmitter with the battery compartment open, showing the slots for four AA batteries.

4.2 Binding the Receiver

The binding process establishes a secure communication link between the transmitter and the receiver. Refer to your receiver's specific manual for detailed binding instructions, as procedures may vary slightly. Generally, the steps involve:

1. Ensure the transmitter is powered off.
2. Connect power to the receiver. The receiver's LED indicator will typically flash, indicating it is in binding mode or awaiting a binding signal.
3. While holding the bind button (if present) on the receiver, or following a specific power-on sequence, power on the transmitter.
4. Observe the receiver's LED. A solid light usually indicates successful binding.

5. Power off both the transmitter and receiver, then power them on again in the normal sequence (transmitter first, then receiver) to confirm the binding.

5. Operating Instructions

5.1 Powering On/Off

- **To Power On:** Ensure batteries are correctly installed. Flip the power switch on the transmitter to the "ON" position. The power indicator LED will illuminate. Then, power on your model's receiver.
- **To Power Off:** First, power off your model's receiver. Then, flip the power switch on the transmitter to the "OFF" position.

5.2 Basic Controls

The MC6C transmitter features two primary control sticks (gimbals) and several switches for controlling your model. The specific functions of each channel and switch depend on your model's configuration.

Figure 5.1: Detailed front view of the MC6C transmitter, showing the gimbals, trim levers, and various switches for channel control.

- **Gimbals:** Control primary functions like throttle, aileron, elevator, and rudder.
- **Switches:** Used for auxiliary functions such as landing gear, flaps, flight modes, or channel 5 and 6 control.
- **Trims:** Small levers near the gimbals used to fine-tune the neutral position of control surfaces.

5.3 Low Voltage Alarm

The MC6C transmitter is equipped with a low voltage alarm system. When the battery voltage drops below a safe operating level, the LED indicator will flash, and a buzzer will sound. This indicates that the batteries need to be replaced or recharged immediately to prevent loss of control.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the transmitter. Avoid using solvents or abrasive cleaners.
- **Storage:** Store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods to prevent leakage.
- **Inspection:** Periodically check all switches, gimbals, and connections for any signs of wear or damage.
- **Battery Care:** Always use fresh, high-quality AA batteries. If using rechargeable batteries, ensure they are fully charged before each use.

7. Troubleshooting

Problem	Possible Cause	Solution
Transmitter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity and replace with fresh batteries.
No control response from model.	Receiver not bound, receiver not powered, or out of range.	Ensure receiver is powered and bound. Check range.
Low voltage alarm activates frequently.	Batteries are low or nearing end of life.	Replace batteries with new ones.
Intermittent control or signal loss.	Interference, transmitter/receiver too far apart, or damaged antenna.	Operate in an open area. Check antennas for damage. Re-bind if necessary.

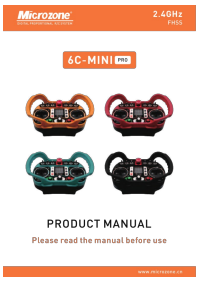
8. Safety Information

- Always operate your RC model in a safe and open area, away from people, animals, and property.
- Never operate your RC model near power lines, roads, or water bodies.
- Ensure the transmitter is powered on before the receiver, and powered off after the receiver, to prevent accidental activation.
- Regularly inspect your model and control system for any damage or loose connections.
- Do not operate the system if you are tired, under the influence of alcohol, or otherwise impaired.
- Keep the product out of reach of children when not in use.

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer where the product was acquired. Keep your proof of purchase for warranty claims.

Related Documents - MC6C

	Microzone MC7RE-V2 2.4GHz FHSS Receiver Product Manual Comprehensive product manual for the Microzone MC7RE-V2 2.4GHz FHSS receiver, detailing specifications, functional parsing, power-on, frequency pairing, fail-safe settings, PWM and SBUS signal information, and important safety precautions.
	Microzone 6C-MINI 2.4GHz FHSS RC Transmitter & Receiver Product Manual Comprehensive product manual for the Microzone 6C-MINI 2.4GHz FHSS RC transmitter and receiver system. Covers remote control and receiver functions, specifications, detailed descriptions, operation settings, calibration, safety precautions, and configuration lists.
	Microzone 6C-MINI 2.4GHz FHSS RC Transmitter Product Manual This comprehensive product manual provides detailed information on the Microzone 6C-MINI 2.4GHz FHSS digital proportional R/C system. It covers remote control and receiver function analysis, specifications, power supply, setup procedures, function settings, calibration, and important safety precautions.
	ClearWater Tech Microzone 300 & 500 Ozone Generator Installation and Operation Manual Comprehensive installation and operation manual for ClearWater Tech's Microzone 300 and 500 Corona Discharge Ozone Generators, covering safety, setup, maintenance, specifications, and warranty information.
	Microzone 8B-MINI 2.4GHz FHSS RC System Product Manual Comprehensive product manual for the Microzone 8B-MINI 2.4GHz FHSS RC system, detailing remote control and receiver features, setup, operation, and safety guidelines.
	Microzone 6C-MINI PRO 2.4GHz FHSS Remote Control System User Manual Comprehensive user manual for the Microzone 6C-MINI PRO 2.4GHz FHSS digital proportional R/C system, covering function analysis, specifications, charging, first-time use, frequency pairing, safety recommendations, and operation details.

Documents - MicroZone – MC6C

[Microzone MC6C 6CH RC Transmitter Receiver System for Drones & Quadcopters]

Detailed specifications and features of the Microzone MC6C 6-channel remote transmitter and receiver system, designed for drones, quadcopters, and other RC models. Includes transmitter power, range, modulation, receiver signal types, and package contents.

lang:en score:47 filesize: 505.16 K page_count: 2 document date: 2019-04-30

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MC6C CH.5 CH.6 D/R **MC6C** CH.5 CH.6 D/R MC C MHz- MHz MW - m FHSS 4 AAA S DC . - V * * mm g : DC4-9V, 45, DC, , : ,, , : , , , : , , : : , : 2023: , 2P, , ,, , , ,, 2023: , , , , D/R, : : 2023: ,, IC, 2023: ,, , ,, 6, 1000-2000us 0-1...

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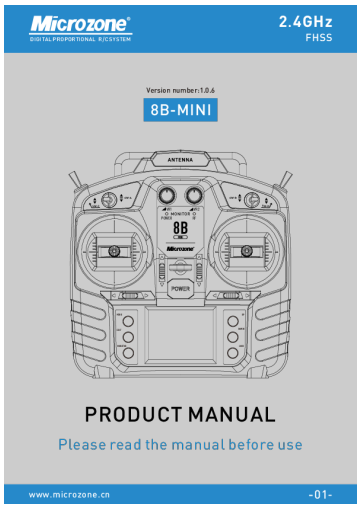

[Microzone 8B-MINI 2.4GHz FHSS RC System Product Manual]

Comprehensive product manual for the Microzone 8B-MINI 2.4GHz FHSS RC system, detailing remote control and receiver features, setup, operation, and safety guidelines.

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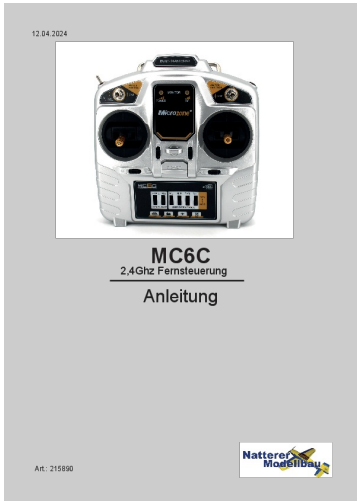

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MC6C Sender indd Natterer Modellbau 5 Der Microzone 2 4GHz wird nur mit seinen eigenen Empfängern gepaart Empfänger von anderen Herstellern funktionieren nicht natterer modellbau de mediafiles Downloads Anleitung |||

12.04.2024 **MC6C** 2,4Ghz Fernsteuerung Anleitung Art.: 215890 Inhaltsverzeichnis Warn- und Sicherheitshinweise 2 Vorsichtsmanahmen 4 1. Sender-Funktionen berblick 4 2. Empfnger berblick 5 3. Sender und Empfnger binden 5 4. Programmierung des Senders auf den Gasweg 6 5. Problemlsungen 6 ...

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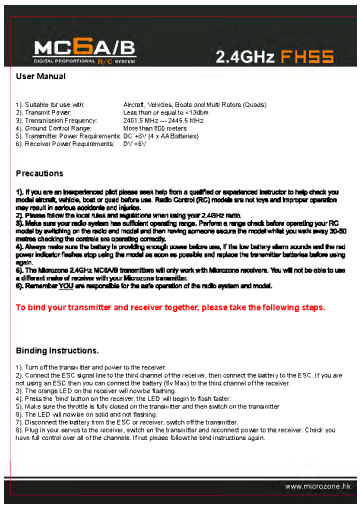

[pdf] User Manual Instructions

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UserManual 1 .Suitableforusewith: Aircraft,Vehicles,BoatsandMultiRotors Quads 2 .TransmitPower: Lessthanorequalto 13dbm 3 .TransmissionFrequency: 2401.5MHz---2445.5MHz 4 .GroundControlRange: Morethan800meters 5 .TransmitterPowerRequirements:DC 6V 4xAABatteries 6 .ReceiverPowerRequirement...

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