Migro 154404

Migro Four-Channel Wireless Transmitter and Receiver System 154404 User Manual

1. Introduction

This manual provides essential instructions for the installation, operation, and maintenance of the Migro Four-Channel Wireless Transmitter and Receiver System, model 154404. This system is designed for robust industrial control applications, offering reliable long-range wireless communication for various functions.

The kit includes one base transmitter with dry N/O contact inputs and one base receiver with a supervised module, along with two 7-inch antennas with 5 ft coaxial cables and SMA connectors. It operates on the FM GFS in the 154MHz license-free industrial ISM band and is compliant with FCC CFR part 15.247 ISM regulations. The system supports 16 addresses per system, ensuring secure and independent operation.

Typical applications include lighting control, pump controls, gate and valve control, and alarm systems. The system is solar-ready and operates on 12VDC, housed in a durable ABS plastic enclosure.

2. Setup and Installation

The Migro 154404 system is designed for simple and easy installation, requiring no parametrization or programming. A wiring diagram is included to facilitate setup. Ensure all power is disconnected before beginning installation.

2.1 Components Overview

- **Transmitter Unit:** Receives input signals from external devices.
- **Receiver Unit:** Provides relay outputs to control external devices.
- **Antennas:** Two 7-inch antennas for wireless communication.
- **Power Supply:** Requires 12VDC (not included).

2.2 Wiring Instructions

Refer to the diagram below for proper wiring of the transmitter and receiver units. Ensure all connections are secure and correctly matched.

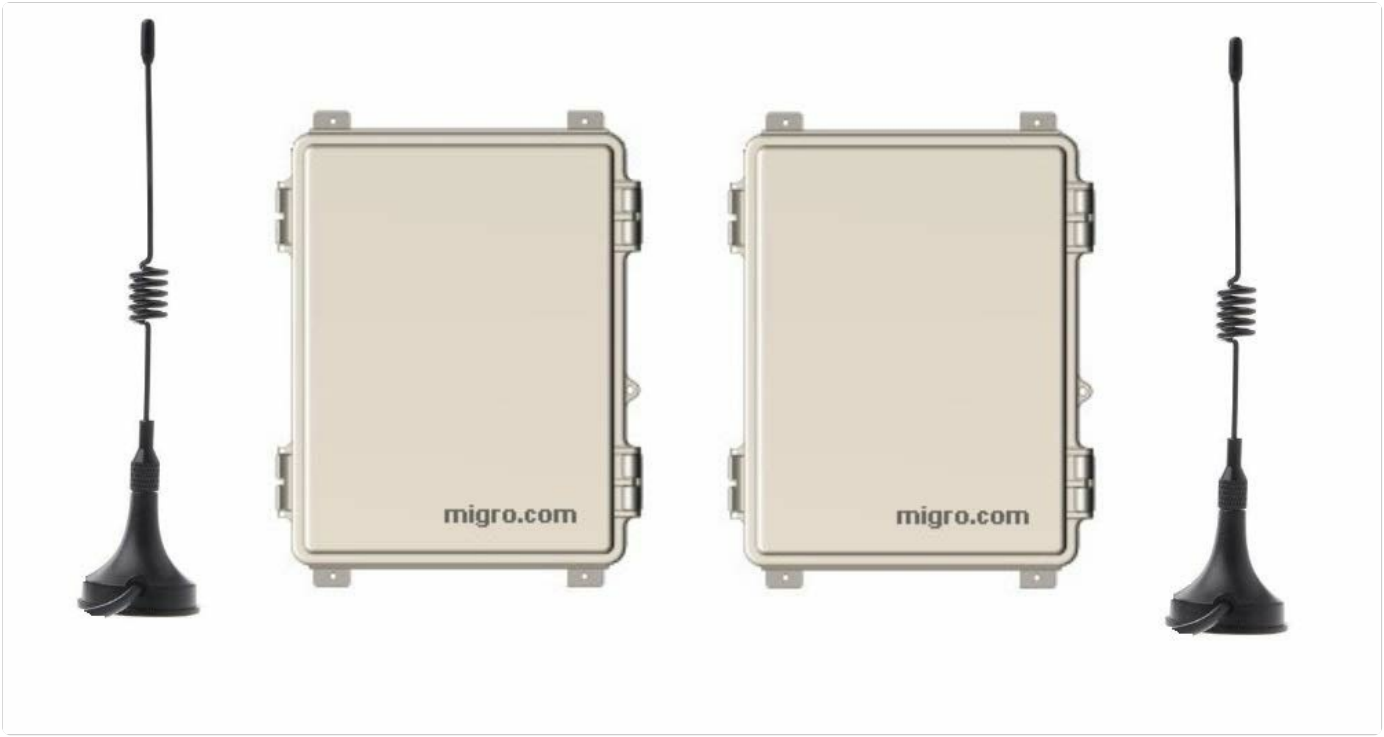


Figure 1: Migro Four-Channel Wireless Transmitter and Receiver with Wiring Details. The image displays the external appearance of both the Transmitter and Receiver units. Below the Transmitter, an input wiring diagram shows four terminals labeled C, 1, 2, 3, 4, with corresponding input lines. Below the Receiver, an output wiring diagram illustrates four sets of relay contacts (CH1, CH2, CH3, CH4), each with Common (C), Normally Open (NO), and Normally Closed (NC) terminals. Both diagrams also show a power supply module.

Transmitter Input Wiring:

- Connect your input devices (e.g., switches, sensors) to the designated terminals on the transmitter module.
- The diagram shows terminals labeled **C** (Common) and **1, 2, 3, 4** for the four input channels. Connect your dry N/O (Normally Open) contacts across the Common and the respective channel terminal.
- Ensure the 12VDC power supply is connected correctly to the transmitter unit.

Receiver Output Wiring:

- The receiver provides four independent relay outputs (CH1, CH2, CH3, CH4).
- Each channel has three terminals: **C** (Common), **NO** (Normally Open), and **NC** (Normally Closed).
- Connect your controlled devices (e.g., pumps, lights, gate openers) to the appropriate relay contacts based on your application's requirements (e.g., C and NO for normally open operation).
- Ensure the 12VDC power supply is connected correctly to the receiver unit. The relay outputs are rated for 6Amp Class 2 pilot duty.

3. Operating Instructions

Once the transmitter and receiver units are properly installed and powered, the system is ready for operation. The wireless link is established automatically, and no manual pairing or configuration is typically required.

- **Input Activation:** When a dry N/O contact connected to a specific channel on the transmitter is closed, the transmitter sends a wireless signal.
- **Output Response:** Upon receiving the signal, the corresponding relay on the receiver unit will activate. For example, if input channel 1 on the transmitter is activated, output relay CH1 on the receiver will change its state (NO closes, NC opens).
- **Channel Independence:** Each of the four channels operates independently, allowing for separate control of up to four different devices or functions.

- **Range:** The system is designed for long-range industrial applications. Optimal range is achieved with clear line-of-sight between antennas.

4. Maintenance

The Migro 154404 system is designed for durability and minimal maintenance. Regular checks can help ensure continued reliable operation.

- **Visual Inspection:** Periodically inspect the units and antennas for any physical damage, corrosion, or loose connections.
- **Cleaning:** Keep the enclosures clean and free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Power Supply:** Ensure the 12VDC power supply is stable and within the specified voltage range.
- **Antenna Placement:** Verify that antennas remain securely mounted and positioned for optimal signal reception.

5. Troubleshooting

If you encounter issues with your Migro wireless system, consider the following troubleshooting steps:

- **No Power:** Check the 12VDC power connections to both the transmitter and receiver units. Ensure the power source is active.
- **No Communication:**
  - Verify that both antennas are securely connected to their respective units.
  - Check the distance and line-of-sight between the transmitter and receiver. Obstructions can reduce range.
  - Ensure there are no strong sources of interference operating on similar frequencies nearby.
- **Incorrect Output Response:**
  - Confirm that the input wiring on the transmitter is correct for the desired channel.
  - Verify the output wiring on the receiver, ensuring devices are connected to the correct C, NO, or NC terminals.
- **Intermittent Operation:** Check for loose wiring connections on both units. Ensure the power supply is stable and not fluctuating.

6. Specifications

Brand	Migro
Model Number	154404
Number of Channels	4 (Four-Channel)
Control Method	Wireless Remote
Operating Frequency	154MHz ISM Band (License-Free)
Modulation	FM GFS
Compliance	FCC CFR part 15.247 ISM

System Addresses	16 per system
Transmitter Input	Dry N/O Contact
Receiver Output	Relay Output, 6Amp Class 2 Pilot Duty
Power Requirement	12VDC
Enclosure Material	ABS Plastic
ASIN	B00PXDEZU0

7. Support

For further assistance or inquiries regarding the Migro Four-Channel Wireless Transmitter and Receiver System, factory support is available worldwide. Please refer to the product packaging or Migro's official website for contact information.

Ask a question about this manual

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

Anonymous

Email

you@example.com

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