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Urmet 5150/500

Urmet 5150/500 Intercom Microphone/Speaker Unit Instruction Manual

Model: 5150/500

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Urmet 5150/500 Intercom Microphone/Speaker Unit. Please read this manual thoroughly before installation and use to ensure proper function and safety. Keep this manual for future reference.

2. Product Overview

The Urmet 5150/500 is a compact microphone and speaker unit designed for integration into Urmet intercom systems. It facilitates two-way audio communication within an intercom setup, typically serving as the internal audio component for a handset or door station. The unit features adjustable audio levels for both internal and external sound.



Figure 1: Front view of the Urmet 5150/500 Intercom Microphone/Speaker Unit. The image displays the speaker grille at the top, two adjustment potentiometers labeled 'INT. OII' (Internal) and 'EXT. |||' (External) for audio level control, and a terminal block at the bottom for electrical connections. The 'CE' mark is also visible, indicating conformity with European standards.

3. Safety Information

- Installation should only be performed by qualified personnel in accordance with local electrical codes and regulations.
- Disconnect power to the intercom system before performing any installation, wiring, or maintenance.
- Do not expose the unit to moisture or extreme temperatures.
- Ensure all connections are secure to prevent electrical shorts or intermittent operation.

4. Setup and Installation

4.1 Mounting

The Urmet 5150/500 unit is designed for internal mounting within an intercom handset or panel. Secure the unit using appropriate screws through the designated mounting points (visible at the top-left and bottom-right corners in Figure 1). Ensure the unit is firmly fixed to prevent vibration and ensure optimal audio performance.

4.2 Wiring Connections

Connect the unit to the intercom system using a 5-wire connection. Refer to the terminal block labels on the unit and the wiring diagram of your specific Urmet intercom system for correct connections. The terminal block is located at the bottom of the unit (see Figure 1).

Table 1: Terminal Block Connections

Terminal Label	Description
PS	Power Supply Input for the unit's internal electronics.
2	Speaker Output Line (Audio from the intercom system to the unit's speaker).
1	Microphone Input Line (Audio from the unit's microphone to the intercom system).
1A	Common Ground for audio and power circuits.
~ - /~	Auxiliary AC Power Input (e.g., for chime or additional functions, consult system diagram).

4.3 Audio Level Adjustment

After wiring, adjust the audio levels using the two potentiometers on the unit:

- **INT. OII:** Adjusts the internal audio level (e.g., speaker volume).
- **EXT. |||:** Adjusts the external audio level (e.g., microphone sensitivity).

Use a small screwdriver to carefully turn the potentiometers until the desired audio balance and clarity are achieved.

5. Operation

Once installed and connected, the Urmet 5150/500 unit functions as the primary audio interface for your intercom system. Its operation is integrated with the overall intercom system's functionality. Typically, when a call is initiated, the speaker will reproduce the incoming audio, and the microphone will capture your voice for transmission.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check wiring connections for looseness or damage.
- No user-serviceable parts are inside the sealed unit. Do not attempt to open the unit.

7. Troubleshooting

- **No Sound from Speaker:**
  a. Check all wiring connections, especially terminals 'PS', '2', and '1A'.
  b. Verify the intercom system is powered on.
  c. Adjust the 'INT. OII' potentiometer.
- **No Sound from Microphone:**
  a. Check all wiring connections, especially terminals '1' and '1A'.
  b. Adjust the 'EXT. |||' potentiometer.
- **Distorted or Low-Quality Audio:**
  a. Ensure all wiring is correctly connected and free from interference.
  b. Adjust both 'INT. OII' and 'EXT. |||' potentiometers for optimal balance.
  c. Verify the unit is securely mounted and not vibrating.

If issues persist after following these steps, contact Urmet technical support or a qualified technician.

8. Specifications

- **Brand:** Urmet
- **Model Number:** 5150/500
- **Function:** Microphone and Speaker Unit for Intercom Systems
- **Wiring:** 5-wire connection
- **Adjustments:** Internal (INT. OII) and External (EXT. |||) audio level potentiometers

9. Warranty and Support

For information regarding warranty coverage, technical support, or spare parts availability, please refer to the official Urmet website or contact your authorized Urmet dealer. Keep your purchase receipt as proof of purchase.

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