GAMEWELL AM-50-70

FCI GAMEWELL AM-50-70 Audio Amplifier User Manual

Model: AM-50-70

1. Introduction

This manual provides detailed instructions for the proper installation, operation, and maintenance of the FCI GAMEWELL AM-50-70 AM-50 transponder 50 watt, 70 VRMS Audio Amplifier. Please read this manual thoroughly before attempting to install or operate the device to ensure safe and efficient performance.
The AM-50-70 is designed to provide reliable audio amplification for fire safety and emergency communication systems, delivering 50 watts of power at 70 VRMS output.

2. Safety Information

WARNING: Electrical shock hazard. Disconnect power before servicing.

- Always ensure power is disconnected before installation, maintenance, or troubleshooting.
- This device contains static-sensitive components. Handle with care, using appropriate electrostatic discharge (ESD) precautions.
- Installation and servicing should only be performed by qualified personnel.
- Do not expose the amplifier to moisture or extreme temperatures.
- Ensure proper ventilation to prevent overheating.

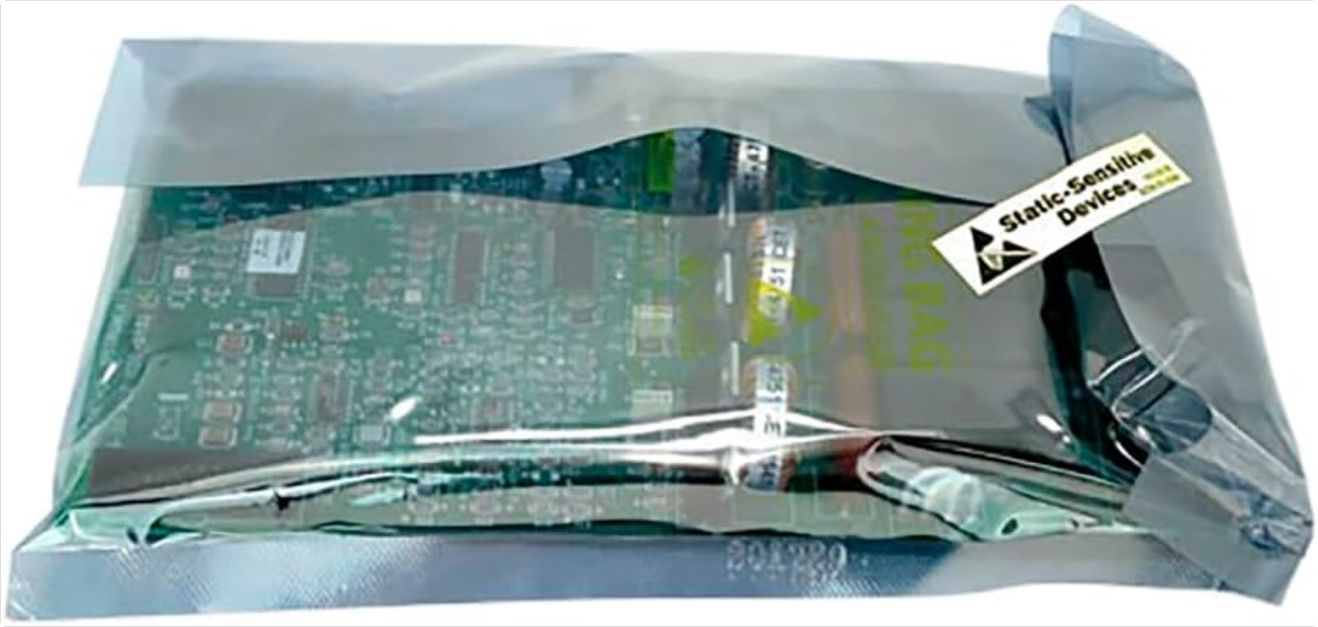


Figure 1: The FCI GAMEWELL AM-50-70 audio amplifier module, sealed within an anti-static bag. The bag features a label indicating 'Static-Sensitive Devices', emphasizing the need for careful handling to prevent electrostatic discharge damage. The green circuit board with various electronic components is visible through the translucent packaging.

3. Product Overview

The AM-50-70 is a critical component in fire alarm and emergency voice evacuation systems. It functions as a transponder audio amplifier, providing 50 watts of audio output at 70 VRMS. Its robust design ensures reliable performance in demanding environments.

Key Features:

- 50 Watt Audio Output
- 70 VRMS Output Capability
- Designed for Fire Safety Applications
- Reliable Transponder Functionality

4. Setup and Installation

Before beginning installation, ensure all necessary tools and safety equipment are available. Refer to the system's main control panel manual for specific wiring diagrams and compatibility requirements.

Installation Steps:

1. **Unpacking:** Carefully remove the AM-50-70 from its anti-static packaging. Avoid touching exposed circuit board components directly.
2. **Mounting:** Securely mount the amplifier in the designated enclosure or panel, ensuring adequate space for ventilation and wiring.
3. **Wiring Input:** Connect the audio input from the control panel or audio source to the designated input terminals on the AM-50-70. Observe polarity.
4. **Wiring Output:** Connect the 70 VRMS speaker line to the output terminals. Ensure the total speaker load does not exceed 50 watts.
5. **Power Connection:** Connect the power supply to the amplifier. Verify correct voltage and current ratings as per specifications.

6. **Grounding:** Ensure proper grounding of the amplifier and its enclosure to prevent electrical interference and ensure safety.
7. **Verification:** Double-check all connections for security and correctness before applying power.

5. Operating Instructions

Once installed and wired correctly, the AM-50-70 operates in conjunction with the main fire alarm control panel. It amplifies audio signals for emergency broadcasts.

Normal Operation:

- Upon system activation (e.g., fire alarm), the control panel will send an audio signal to the AM-50-70.
- The amplifier will automatically activate and amplify the audio signal to the connected 70 VRMS speaker circuit.
- Monitor system indicators on the main control panel for amplifier status.

Testing:

Regular testing of the audio amplification system is crucial. Refer to your local fire codes and the main control panel's manual for recommended testing procedures. Typically, this involves initiating a system test from the control panel to verify audio output through all connected speakers.

6. Maintenance

The AM-50-70 is designed for minimal maintenance. However, periodic inspections are recommended to ensure optimal performance and longevity.

- **Visual Inspection:** Annually inspect the amplifier for any signs of physical damage, loose connections, or corrosion.
- **Cleaning:** If necessary, gently clean the exterior of the unit with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that ventilation openings are clear of dust and debris to prevent overheating.
- **Professional Servicing:** Any internal servicing or repair should only be performed by certified technicians.

7. Troubleshooting

If the AM-50-70 is not functioning as expected, consult the following table before contacting technical support.

Problem	Possible Cause	Solution
No audio output	• No power to amplifier • Incorrect wiring • Faulty input signal • Speaker line fault	• Check power supply and connections. • Verify all input/output wiring against diagrams. • Test audio source. • Check speaker line for shorts or open circuits.
Distorted audio	• Overdriven input signal • Improper speaker impedance • Damaged amplifier	• Reduce input signal level. • Ensure speaker load matches 70 VRMS output. • Contact qualified service personnel.

Problem	Possible Cause	Solution
Amplifier overheating	• Insufficient ventilation • Overloaded output	• Ensure clear airflow around the unit. • Verify total speaker wattage does not exceed 50W.

8. Specifications

Feature	Detail
Brand	GAMEWELL
Model	AM-50-70
Output Wattage	50 Watts
Output Voltage	70 VRMS
Power Source	Corded Electric
UPC	742779310026
Manufacturer	GAMEWELL

9. Warranty and Support

For warranty information and technical support, please contact your authorized GAMEWELL distributor or the manufacturer directly. Keep your purchase receipt as proof of purchase.
For further assistance, refer to the contact information provided with your purchase or visit the official GAMEWELL website.

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