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alerton bactalk microset ii installation manual

Published: September 19, 2026 | Index ID: #-

Alerton Bactalk Microset II Installation Manual: A Complete Guide

Installing a fire alarm system is a critical task that requires precision, safety, and an understanding of local codes. The **Alerton Bactalk Microset II**is a versatile, compact control panel designed for both residential and commercial applications. Whether you're a seasoned installer or a DIY enthusiast, this comprehensive manual will walk you through every step of the process—from gathering the right tools to performing the final test run. By the end of this guide, you'll have a fully functional Bactalk Microset II that meets code requirements and provides reliable protection for your property.

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1. Overview of the Alerton Bactalk Microset II

The Alerton Bactalk Microset II is a lightweight, wall mounted control panel that integrates seamlessly with a wide range of fire alarm devices—smoke detectors, heat detectors, manual pull stations, and voice evacuation units. Key features include:

- Compact Design – 4.5" × 4.5" footprint, ideal for tight spaces.
- Multiple Input/Output Ports – 24 inputs, 12 outputs, and 4 spare contacts.
- Integrated Power Supply – 12 /V DC, 2 /A, with optional battery backup.
- Compliance – UL 10C, NFPA 72, and local fire code requirements.
- Ease of Programming – User friendly interface and optional remote configuration via serial or Ethernet.

Understanding the panel's capabilities is the first step toward a successful installation. The Bactalk Microset II is designed to be flexible, allowing you to adapt the system to a variety of building types and sizes.

2. Tools and Materials Needed

Below is a complete list of tools and materials to keep on hand before you begin. Having everything ready will streamline the process and reduce the risk of errors.

- Standard screwdriver set (Philips and flathead)
- Adjustable wrench
- Voltage tester or multimeter
- Crimping tool for RJ45 cables
- Cable stripper and cutter
- Wire fish tape (if running cables through walls)
- Heat shrink tubing and heat gun
- Label maker or waterproof labels
- Electrical tape and cable ties
- 12 /V DC power supply (or 120 /V AC if using an external transformer)
- Battery backup unit (optional but recommended)
- Fire alarm devices: smoke detectors, heat detectors, manual pull stations, annunciator panels, and voice evacuation units as required
- Appropriate conduit, cable trays, or raceways for cable routing
- Grounding rod or grounding kit (for compliance with NFPA 72)
- Reference documents: NFPA 72, local building code, and the Bactalk Microset II technical specifications sheet

3. Safety Precautions and Code Compliance

Fire alarm systems are life saving devices; any installation mistake can compromise safety. Follow these guidelines to ensure a safe, code compliant installation:

- Power Off – Always disconnect the power supply before working on the panel.
- Grounding – Ensure the panel and all connected devices are properly grounded per NFPA 72.
- Labeling – Clearly label all wiring and connections to avoid confusion during maintenance.
- Fire Safe Materials – Use only fire rated conduit and cable where required.
- Professional Review – Have the installation inspected by a licensed fire alarm professional or local code official.
- Documentation – Keep a detailed installation log, including wiring diagrams and test results.

4. Pre Installation Planning

Thorough planning is the backbone of a smooth installation. Consider the following steps before you open the panel:

1. Site Survey – Measure the available wall space, identify potential obstructions, and map out the best route for wiring.
2. Device Placement – Determine the optimal locations for smoke detectors, heat detectors, and manual pull stations based on building layout and occupancy.
3. Power Source – Verify that the 12 /V DC power supply or transformer is within the required voltage and current specifications.
4. Labeling Plan – Create a labeling system for all wires and terminals to streamline troubleshooting later.
5. Code Verification – Cross check the installation plan against local codes and NFPA 72 requirements to avoid costly rework.

5. Step by Step Installation

5.1 Mounting the Panel

1. Select a wall location that is easily accessible, dry, and within 8 /ft of the nearest power source.

2. Use a level to mark the mounting points for the mounting screws. The Bactalk Microset II comes with a mounting

bracket that aligns with standard 1 inch holes.

3. Drill pilot holes, then secure the panel with the supplied screws. Ensure the panel is firmly attached to prevent vibration or movement.

5.2 Connecting the Power Supply

1. If using an external transformer, connect the 120 V AC input to the transformer’s output terminals, then feed the 12 /V DC output into the panel’s power input.

2. For the built in 12 /V supply, simply connect the power cord to the panel’s input jack.

3. Attach the battery backup unit in parallel if available. Follow the manufacturer’s wiring diagram for correct polarity.

5.3 Installing the Grounding System

1. Run a grounding wire from the panel’s grounding terminal to the building’s grounding electrode.

2. Use a grounding rod if the building does not have a dedicated electrode. The rod should be driven at least 8 /ft into the ground.

3. Secure the grounding wire with a grounding clamp and ensure all connections are tight.

5.4 Wiring the Alarm Devices

1. Begin with the smoke and heat detectors. Wire each device to the designated input terminals on the panel, observing the polarity indicated on the device’s datasheet.

2. Connect manual pull stations to the appropriate input terminals, ensuring that the pull mechanism is accessible and unobstructed.

3. Wire the annunciator panel and voice evacuation unit to the corresponding output terminals. Use shielded cables for voice units to reduce interference.

4. Label each wire with the device name and terminal number. This will simplify future maintenance and troubleshooting.

5.5 Connecting the Battery Backup

1. Attach the battery backup’s positive and negative leads to the panel’s battery terminals.

2. Verify that the battery is fully charged before powering the system.

3. Check for any error lights or indicators that might signal a battery issue.

6. Wiring and Connectivity

Proper wiring is essential for reliable operation. Follow these guidelines to ensure clean, code compliant runs:

- Wire Gauge – Use 18 AWG copper wire for most alarm devices. Heavier gauge (16 AWG) may be required for longer runs or higher current devices.
- Cable Routing – Keep alarm cables separate from power cables to avoid electromagnetic interference. Use conduit or cable trays whenever possible.
- Separation from HVAC – Route alarm cables away from HVAC ducts and heating units to minimize temperature fluctuations.
- Cable Termination – Use crimp connectors for all splices. Avoid soldering unless the device explicitly requires it.

- Labeling – Apply waterproof labels on both ends of each cable, indicating the device name, terminal number, and cable length.

7. Initial Configuration and Programming

Once all connections are secure, you'll need to program the Bactalk Microset II to recognize your devices and set up the desired logic. The panel offers two primary methods for configuration: the built in keypad interface and remote configuration via serial or Ethernet.

7.1 Keypad Interface

1. Power on the panel and wait for the boot sequence to complete.
2. Enter the default administrator password (usually "0000" or "1234"). Refer to the user manual for your specific panel.
3. Navigate to the "Device Setup" menu.
4. Assign each input terminal to the corresponding device type (e.g., smoke, heat, pull). Use the keypad to confirm each assignment.
5. Set the desired alarm priority and notification settings. For example, you may want smoke alarms to trigger a high priority alarm over heat detectors.
6. Save the configuration and exit the menu.

7.2 Remote Configuration

For larger installations or when using a networked system, remote configuration offers greater flexibility.

1. Connect the panel to a computer via the serial or Ethernet port.
2. Launch the Alerton configuration software (available on the company's website).
3. Follow the on screen prompts to establish a connection.
4. Use the graphical interface to map input and output terminals, assign device types, and configure alarm logic.
5. Export the configuration file to the panel and verify the settings.

8. Testing and Commissioning

Testing validates that the system operates as intended. Perform the following tests in sequence:

8.1 Power On Test

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