

## FERMAX 3255

# FERMAX Duox Plus Line Adaptor 3255 Instruction Manual

Model: 3255

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the FERMAX Duox Plus Line Adaptor, Model 3255. This device is designed to ensure proper termination within a Duox Plus digital two-wire system, optimizing signal integrity and system performance. Please read this manual thoroughly before installation and use.

## 2. SAFETY INFORMATION

- Always disconnect power to the Duox Plus system before installing or servicing the adaptor.
- Installation should be performed by qualified personnel in accordance with local electrical codes and regulations.
- Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not attempt to open or modify the device; doing so will void the warranty and may cause damage or injury.

## 3. PRODUCT OVERVIEW

The FERMAX Duox Plus Line Adaptor 3255 is a compact unit designed for line termination in Duox Plus systems. It features a jumper block (JP1) for configuration and screw terminals for connection to the Duox Plus bus.

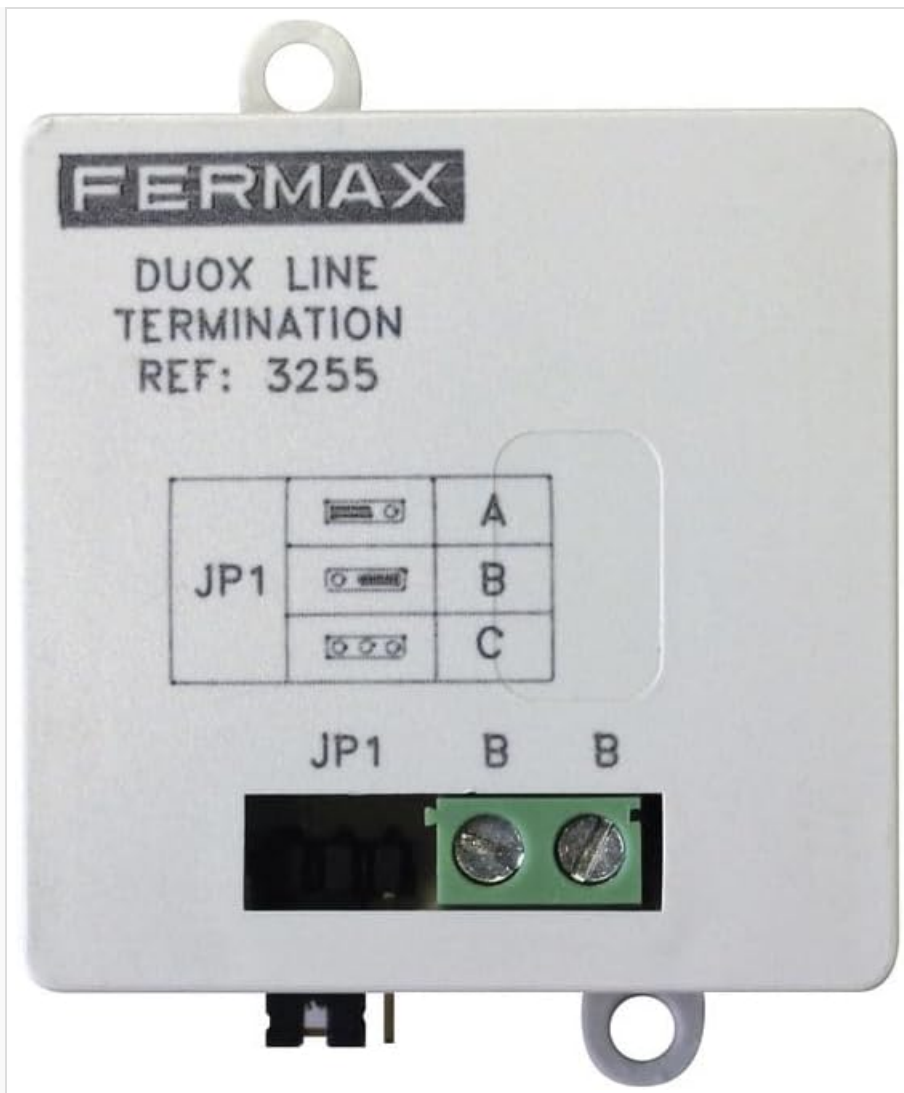


**Image 1:** Front view of the FERMAX Duox Plus Line Adaptor 3255. The image displays the white plastic casing with the FERMAX logo, "DUOX LINE TERMINATION REF: 3255" text, a diagram for jumper settings (JP1 with options A, B, C), and two screw terminals labeled 'B' at the bottom.

### Components:

- **JP1 Jumper Block:** Used to select the termination mode (A, B, or C).
- **B B Terminals:** Screw terminals for connecting the Duox Plus bus wires.
- **Mounting Tabs:** Integrated tabs for wall mounting.

## 4. SETUP AND INSTALLATION

The Duox Plus Line Adaptor 3255 is typically installed at the end of a Duox Plus bus line to ensure proper signal termination. Follow these steps for installation:

1. **Power Disconnection:** Ensure the Duox Plus system power supply is completely disconnected before beginning installation.
2. **Mounting:** Secure the adaptor to a suitable surface (e.g., wall, junction box) using appropriate screws through the integrated mounting tabs.
3. **Jumper Configuration (JP1):**

Refer to the system's overall wiring diagram and the diagram on the adaptor itself (Image 1) to set the JP1 jumper correctly. The jumper settings (A, B, C) correspond to different termination requirements. Typically, only one jumper position should be selected.

- **Position A:** (Specific termination setting, consult system manual)
- **Position B:** (Specific termination setting, consult system manual)
- **Position C:** (Specific termination setting, consult system manual)

*Note: The exact function of each jumper position (A, B, C) depends on the specific Duox Plus system configuration and cable length. Always consult the main Duox Plus system installation manual for precise guidance on jumper settings.*

4. **Wiring Connections:**

Connect the Duox Plus bus wires to the 'B B' screw terminals. Ensure polarity is maintained if specified by the system. Tighten the screws firmly to ensure good electrical contact.

- Connect the first Duox Plus bus wire to one 'B' terminal.
- Connect the second Duox Plus bus wire to the other 'B' terminal.

5. **Power Restoration:** Once all connections are secure and verified, restore power to the Duox Plus system.

5. OPERATING INSTRUCTIONS

The FERMAX Duox Plus Line Adaptor 3255 is a passive component that does not require active operation. Its function is to provide correct line termination for the Duox Plus system. Once installed and configured correctly, it operates continuously to maintain signal quality.

- Ensure the Duox Plus system is functioning correctly after installation.
- Monitor system performance for any signal degradation or communication errors, which might indicate incorrect termination or wiring.

6. MAINTENANCE

The Duox Plus Line Adaptor 3255 requires minimal maintenance. Follow these guidelines:

- **Cleaning:** Periodically clean the exterior of the adaptor with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the wiring connections to ensure they remain tight and free from corrosion.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges.

7. TROUBLESHOOTING

If you experience issues with your Duox Plus system after installing the Line Adaptor, consider the following:

| Problem                                      | Possible Cause                         | Solution                                                                                         |
|----------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------|
| System communication errors or instability.  | Incorrect JP1 jumper setting.          | Verify the JP1 jumper setting against the Duox Plus system manual. Adjust as necessary.          |
| No communication or intermittent connection. | Loose or incorrect wiring connections. | Check all 'B B' terminal connections for tightness and correct wiring. Ensure no short circuits. |
| Device not functioning as expected.          | Power issue or faulty unit.            | Ensure the Duox Plus system has power. If issues persist, contact FERMAX technical support.      |

## 8. SPECIFICATIONS

| Feature              | Detail                                       |
|----------------------|----------------------------------------------|
| Brand                | FERMAX                                       |
| Model                | 3255                                         |
| Mounting Type        | Wall Mount                                   |
| Unit Count           | 1.0 Count                                    |
| Package Dimensions   | 3.54 x 2.48 x 0.94 inches (9 x 6.3 x 2.4 cm) |
| ASIN                 | B0C9F3NC3Y                                   |
| Date First Available | June 26, 2023                                |

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official FERMAX website or contact your authorized FERMAX distributor. Keep your purchase receipt as proof of purchase.

**FERMAX Contact Information:**

- **Website:** [www.fermax.com](http://www.fermax.com) (General link, specific support page may vary)
- **Customer Service:** Refer to the website for regional contact details.

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### 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**