

Erico TDX200M277/480T

Erico TDX200M277/480 Modular TDX Panel Protector

Instruction Manual

Model: TDX200M277/480T | Brand: Erico

1. INTRODUCTION

The Erico TDX200M277/480 Modular TDX Panel Protector is a robust surge protection device designed to safeguard electrical systems from transient overvoltages. Featuring a modular design for easy replacement of surge modules and built-in disconnect and fusing, this protector eliminates the need for external fusing. Its transient discriminating technology enhances service life, providing reliable protection for 277/480 Volt, 3 Phase systems.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Installation and servicing must be performed by qualified personnel only.

- Always disconnect power before installing or servicing the device.
- Ensure proper grounding according to local and national electrical codes.
- Do not operate the device if it appears damaged.
- This device is designed for specific voltage and phase configurations. Verify compatibility before installation.

3. PRODUCT FEATURES

- Modular design for easy replacement of surge modules.
- Built-in disconnect and fusing, eliminating the need for external fusing.
- Transient discriminating technology for increased service life.
- Status indication flag per mode.
- Voltage presence LEDs for L1, L2, L3.
- Audible alarm for status alerts.
- Voltage-free contacts for remote status monitoring.
- UL Listed Protector Surge.

4. COMPONENTS OVERVIEW





Figure 1: Front view of the Erico TDX200M277/480 Modular TDX Panel Protector, showing the indicator panel and wiring conduit.

The front panel of the TDX Panel Protector provides visual indicators for its operational status:

- **Voltage Presence LEDs (L1, L2, L3):** Indicate that voltage is present on each respective phase.
- **Protection Status Light:** Illuminates to indicate that the surge protection function is working correctly.
- **Surge Counter:** Displays the number of surge events the device has protected against.
- **RED-REPLACE Indicators (L1-G, L1-N, L1-L3, L2-G, L2-N, L2-L3, L3-G):** These indicators correspond to individual surge protection modules. If any of these show 'RED-REPLACE', the associated module requires replacement.

5. INSTALLATION (SETUP)

Installation of the Erico TDX200M277/480 Panel Protector should only be performed by a qualified electrician in accordance with all applicable national and local electrical codes.

1. **Power Disconnection:** Ensure all power to the electrical panel where the device will be installed is completely disconnected and locked out.
2. **Mounting:** Mount the protector securely to a suitable surface near the electrical panel, ensuring adequate clearance for wiring and ventilation.
3. **Wiring:** Connect the device to the electrical system according to the wiring diagram provided with the product. Pay close attention to phase (L1, L2, L3), neutral (N), and ground (G) connections. The built-in disconnect and fusing simplify the wiring process.
4. **Verification:** Double-check all connections for tightness and correctness before restoring power.

6. OPERATION

Once properly installed and powered, the TDX Panel Protector operates automatically. Monitor the front panel indicators for operational status:

- **Normal Operation:** The Voltage Presence LEDs (L1, L2, L3) should be illuminated, and the Protection Status Light should be on, indicating active surge protection. All RED-REPLACE indicators should be clear (not red).
- **Surge Event:** In the event of a surge, the device will divert excess voltage. The Surge Counter will increment, indicating a successful protection event.
- **Module Failure:** If a surge module has failed or reached its end of life, the corresponding RED-REPLACE indicator will turn red, and an audible alarm may sound.

7. MAINTENANCE

The Erico TDX Panel Protector is designed for minimal maintenance. The primary maintenance task involves replacing surge modules when indicated.

- **Module Replacement:** If any RED-REPLACE indicator is active, the corresponding surge module needs to be replaced. This can be done easily due to the modular design. Always disconnect power before attempting module replacement. Refer to the detailed replacement instructions provided with the replacement modules or consult a qualified technician.
- **Periodic Inspection:** Periodically inspect the device for any visible damage, loose connections, or unusual sounds.

8. TROUBLESHOOTING

Symptom	Possible Cause	Action
Voltage Presence LEDs (L1, L2, L3) are off.	No power to the device or specific phase.	Check power supply to the panel and device. Consult a qualified electrician.
Protection Status Light is off.	Protection circuit failure or module failure.	Check RED-REPLACE indicators. Replace failed modules. If all modules are good, consult a qualified electrician.
RED-REPLACE indicator is red.	Corresponding surge module has failed or reached end of life.	Disconnect power and replace the indicated surge module.
Audible alarm is sounding.	Indication of a module failure or other fault.	Check RED-REPLACE indicators. Address the module failure. The alarm should cease once the fault is cleared.

9. TECHNICAL SPECIFICATIONS

Specification	Value
Model	TDX200M277/480T
Brand	Erico
Surge Current Capacity	200 Kilo-Amp
Voltage Rating	277/480 Volt
Phase	3 Phase
Dimensions (H x W x D)	9.450 Inch x 5.120 Inch x 3.070 Inch
UL Listing	Yes
UPC	782856593355

10. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the documentation included with your product or visit the official Erico website. Contact information for customer service and technical assistance can typically be found there.

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.

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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

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