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## Ditek DTK-MRJPOE

# Ditek DTK-MRJPOE Power Over Ethernet Surge Protector User Manual

Model: DTK-MRJPOE

## 1. INTRODUCTION

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The Ditek DTK-MRJPOE is a single-channel Power Over Ethernet (PoE) surge protector designed to safeguard network equipment from damaging electrical surges. It features RJ45 connections and supports data rates up to 10 Gigabit Ethernet (10GbE), ensuring high-speed network integrity while providing essential surge suppression. This manual provides instructions for proper installation, operation, and maintenance of your DTK-MRJPOE device.

## 2. SAFETY INFORMATION

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**WARNING: Read all safety instructions before installation and operation.**

- Do not install this device during a lightning storm.
- Ensure proper grounding for effective surge protection.
- This device is intended for indoor use or within appropriate outdoor enclosures.
- Do not open the device enclosure; there are no user-serviceable parts inside.
- Disconnect power to all connected equipment before installation or removal.

## 3. PRODUCT FEATURES

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- Power Over Ethernet (PoE) compatibility
- RJ45 connection type
- Single channel protection
- Advanced surge protection technology
- Supports data rates up to 10 Gigabit Ethernet (10GbE)
- Compact and durable design

## 4. SETUP AND INSTALLATION

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The DTK-MRJPOE surge protector is designed for easy inline installation between your network device and the Ethernet cable run. Proper grounding is crucial for effective surge protection.

## 4.1 Components

- DTK-MRJPOE Surge Protector unit
- Grounding wire (typically included or user-supplied)

## 4.2 Installation Steps

1. **Identify Connection Points:** Determine the point in your network where surge protection is needed. This is typically where an Ethernet cable enters a building or connects to a sensitive device.
2. **Disconnect Equipment:** Ensure all network equipment connected to the cable run is powered off and disconnected.
3. **Connect Input Cable:** Connect the incoming Ethernet cable (from the unprotected side, e.g., outdoor cable run or switch) to the RJ45 port labeled 'LINE' or 'IN' on the DTK-MRJPOE.
4. **Connect Output Cable:** Connect a short Ethernet patch cable from the RJ45 port labeled 'PROTECTED' or 'OUT' on the DTK-MRJPOE to your network device (e.g., camera, access point, switch).
5. **Grounding:** Securely connect the grounding wire from the DTK-MRJPOE's grounding terminal to a reliable earth ground. This is critical for surge diversion. Examples of reliable grounds include a dedicated ground rod, a building's main electrical ground, or a grounded metal conduit. Ensure the ground connection is clean and tight.
6. **Verify Connections:** Double-check all Ethernet and grounding connections for proper seating and security.
7. **Restore Power:** Reconnect power to your network equipment. Verify network connectivity and device functionality.



Image of the Ditek DTK-MRJPOE Power Over Ethernet surge protector, showing its compact design and RJ45 ports. This image illustrates the physical appearance of the device for installation reference.

## 5. OPERATING INSTRUCTIONS

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The Ditek DTK-MRJPOE is a passive surge protection device. Once properly installed and grounded, it operates continuously without user intervention. It automatically diverts harmful electrical surges away from your connected equipment to the earth ground, protecting against transient voltage spikes.

- No power switch or configuration is required for operation.
- The device functions as an inline protector, allowing both data and Power Over Ethernet (PoE) to pass through while suppressing surges.

## 6. MAINTENANCE

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The DTK-MRJPOE surge protector requires minimal maintenance. Regular inspection is recommended to ensure

continued effectiveness.

- **Periodic Inspection:** Annually, or after any significant electrical event (e.g., nearby lightning strike), inspect the device and its connections.
- **Check Grounding:** Ensure the grounding wire remains securely connected to a reliable earth ground. A loose or corroded ground connection can compromise protection.
- **Cable Integrity:** Inspect the connected Ethernet cables for any signs of damage or wear.
- **Cleaning:** If necessary, gently wipe the exterior of the device with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Replacement:** Surge protectors have a finite lifespan. While designed to withstand multiple surges, a severe surge can degrade or sacrifice the protection components. If your equipment experiences damage despite the protector being in place after a significant electrical event, or if the device shows signs of physical damage, it is recommended to replace the DTK-MRJPOE.

## 7. TROUBLESHOOTING

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If you encounter issues after installing the DTK-MRJPOE, consider the following troubleshooting steps:

- **No Network Connectivity:**
  - Verify that both Ethernet cables are securely plugged into the 'LINE' and 'PROTECTED' ports.
  - Ensure the Ethernet cables themselves are not damaged. Test them directly without the surge protector if possible.
  - Check the status lights on your network equipment (if applicable) to confirm link activity.
- **PoE Not Functioning:**
  - Confirm that your PoE source (e.g., PoE switch or injector) is active and providing power.
  - Ensure the connected device is PoE compatible and functioning correctly.
  - The DTK-MRJPOE is designed to pass PoE. If PoE fails, re-check all connections and test the PoE source and device directly.
- **Suspected Surge Protector Failure:**
  - If your protected equipment was damaged after a known surge event, the surge protector may have sacrificed itself to protect the equipment. In such cases, the DTK-MRJPOE should be replaced.
  - Inspect the device for any visible signs of damage (e.g., burn marks, melted plastic).
- **Intermittent Connection:**
  - Check the integrity of the grounding connection. A poor ground can lead to unstable performance.
  - Ensure all RJ45 connectors are fully seated and locked into place.

## 8. SPECIFICATIONS

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Specification	Detail
Model Number	DTK-MRJPOE
Connection Type	RJ45
Channels	Single Channel

Data Rate Support	Up to 10 Gigabit Ethernet (10GbE)
PoE Compatibility	Yes (Power Over Ethernet)
Product Dimensions	2.99 x 1.69 x 1.18 inches
Item Weight	2.88 ounces
Manufacturer	DITEK

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official Ditek website or contact Ditek customer service directly. Warranty terms and conditions may vary and are subject to the manufacturer's policies.

**Ditek Contact Information:** Please visit [www.ditek.com](http://www.ditek.com) for the most current support resources and contact details.

