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Altronix TM400

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Instruction Manual

Introduction

The Altronix TM400 is a robust enclosure designed to facilitate the integration of Altronix power solutions with Mercury and LenelS2 access controllers and their associated accessories. This enclosure is engineered to streamline board layout and wire management, significantly reducing installation time and labor costs for security and access control systems.

The TM400 enclosure is compatible with a variety of Mercury controllers, including LP1502, LP4502, MR52, MR16IN, MR16OUT, MR62e, LP1501, and MR50. It also supports LenelS2 controllers such as LNL-2220, LNL-4420, LNL-1320, LNL-1100, LNL-1200, LNL-2210, LP1300e, and LNL-1300. It provides dedicated space for Altronix power supplies and sub-assemblies, ensuring a neat and organized installation.



Image: The Altronix TM400 enclosure shown with its door open, revealing the internal mounting points for circuit boards and wiring. The enclosure is a light gray metal box, designed for secure and organized installation of access control components. Two green circuit boards are visible mounted inside, along with grounding wires.

Setup

1. Unpacking and Inspection

Carefully remove the TM400 enclosure from its packaging. Inspect the unit for any signs of shipping damage. Report any damage to your supplier immediately.

2. Mounting Location

Select a suitable mounting location that is secure, dry, and provides adequate ventilation. Ensure the location allows for easy access for wiring and maintenance. The enclosure should be mounted on a flat, stable surface capable of supporting its weight and the weight of the installed components.

3. Mounting the Enclosure

1. Mark the desired mounting points on the wall using the enclosure's mounting holes as a template.
2. Drill appropriate holes for the mounting hardware (screws, anchors, etc.) suitable for your wall material.
3. Securely fasten the enclosure to the wall. Ensure it is level and firmly attached.

4. Component Installation

Install the Mercury/LenelS2 access controllers, Altronix power supplies, and other accessories onto the designated mounting standoffs and rails within the enclosure. Refer to the specific installation guides for each component for detailed instructions on their placement and securement.

5. Wiring and Grounding

Route all necessary power and data cables neatly within the enclosure. Utilize cable ties and wire management features to maintain organization. Ensure all components are properly grounded according to local electrical codes and manufacturer specifications. The enclosure includes designated grounding points for this purpose.

Operation

The Altronix TM400 enclosure itself does not have operational controls; its function is to house and protect the integrated access control and power components. Once the controllers and power supplies are installed and wired correctly, the system operates according to the functionality of the embedded devices.
Ensure the enclosure door is securely closed after installation and maintenance to protect the internal components from environmental factors and unauthorized access. The ventilation cutouts on the enclosure are designed to allow for proper airflow to prevent overheating of the internal electronics.

Maintenance

Regular maintenance of the Altronix TM400 enclosure and its contents is crucial for ensuring long-term reliability and performance of your access control system.

- **Periodic Inspection:** Annually inspect the enclosure for any signs of physical damage, corrosion, or loose mounting hardware.
- **Cleaning:** Keep the exterior of the enclosure clean using a soft, dry cloth. If necessary, a slightly damp cloth can be used, but ensure no moisture enters the enclosure. Avoid abrasive cleaners.
- **Internal Check:** Periodically open the enclosure (ensuring power is off if performing internal work) to check for dust accumulation on circuit boards and components. Use compressed air to gently remove dust. Verify all wire connections are secure and free from corrosion.
- **Ventilation:** Ensure that the ventilation openings on the enclosure are not obstructed, allowing for proper airflow to prevent overheating of the internal electronics.

Troubleshooting

Most issues related to the TM400 enclosure will stem from the components housed within it. However, some general troubleshooting steps related to the enclosure itself can be considered:

- **System Not Powering On:** Verify that the Altronix power supply within the enclosure is receiving adequate input power and that its output connections to the controllers are secure. Check all circuit breakers and fuses.
- **Intermittent Operation:** Inspect all internal wiring for loose connections or damaged insulation. Ensure proper

grounding is maintained.

- **Overheating:** Confirm that the enclosure's ventilation openings are clear and not blocked. Ensure the ambient temperature of the installation environment is within the operating limits of the internal components.
- **Physical Damage:** If the enclosure is physically damaged, assess if it compromises the protection of the internal components. Replacement may be necessary to ensure continued system integrity.

For issues related to the specific Mercury or LenelS2 controllers or Altronix power supplies, refer to their respective instruction manuals.

Specifications

Specification	Detail
Model	TM400
Manufacturer	Altronix
Package Dimensions	16 x 12 x 5 inches
ASIN	B07G59JHPC
Date First Available	August 3, 2018

Warranty Information

Altronix products are designed for high reliability and performance. For specific warranty terms and conditions applicable to the TM400 enclosure, please refer to the official Altronix warranty statement available on their corporate website or contact Altronix customer service directly. Typically, Altronix provides a limited lifetime warranty on many of its products, covering defects in material and workmanship under normal use.

Technical Support

For technical assistance, installation questions, or troubleshooting support regarding your Altronix TM400 enclosure or integrated Altronix power supplies, please contact Altronix technical support. You can find contact information, including phone numbers and email addresses, on the official Altronix website (www.altronix.com). Please have your product model number (TM400) and any relevant system details ready when contacting support.

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