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DeltaTrak 16000

DeltaTrak Model 16000 5-Day In-Transit Temperature Chart Recorder User Manual

This manual provides essential instructions for the proper setup, operation, and maintenance of your DeltaTrak Model 16000 In-Transit Temperature Chart Recorder.

1. INTRODUCTION

The DeltaTrak Model 16000 is a single-use, in-transit temperature chart recorder designed to monitor and document temperature conditions during the shipment of temperature-sensitive goods. It provides a continuous, easy-to-read record of temperature fluctuations over a 5-day period, ensuring product integrity and compliance with cold chain requirements.

2. PRODUCT OVERVIEW

The Model 16000 recorder features a robust design for reliable performance in various shipping environments. It records temperatures within a standard range of -20°F to 100°F (-29°C to 38°C) on a clear, visible chart. The device is activated with a simple pull-tab mechanism and includes a three-part shipping document for easy record-keeping.



Figure 2.1: The DeltaTrak Model 16000 Temperature Recorder, shown in its protective packaging with the recording chart visible.

3. SETUP AND ACTIVATION

3.1. Unpacking

- Carefully remove the temperature recorder from its shipping carton.
- Inspect the device for any visible damage. Do not use if damaged.

3.2. Activation

The recorder is activated by pulling a designated tab. This initiates the recording process.

1. Locate the 'START UP INDICATOR' tab on the side of the recorder's packaging.
2. Firmly pull the 'TAB' completely out of the unit. This action starts the recording mechanism.
3. Verify that the chart paper has begun to move, indicating active recording.



Figure 3.1: Pulling the activation tab.



Figure 3.2: Start Up Indicator on the device.

3.3. Placement

For accurate temperature monitoring, place the activated recorder in a location that best represents the temperature of the goods being shipped. The device features a peel-and-stick backing for secure attachment to pallets or inside shipping containers.



Figure 3.3: Example of peel-and-stick pallet placement.

4. OPERATION

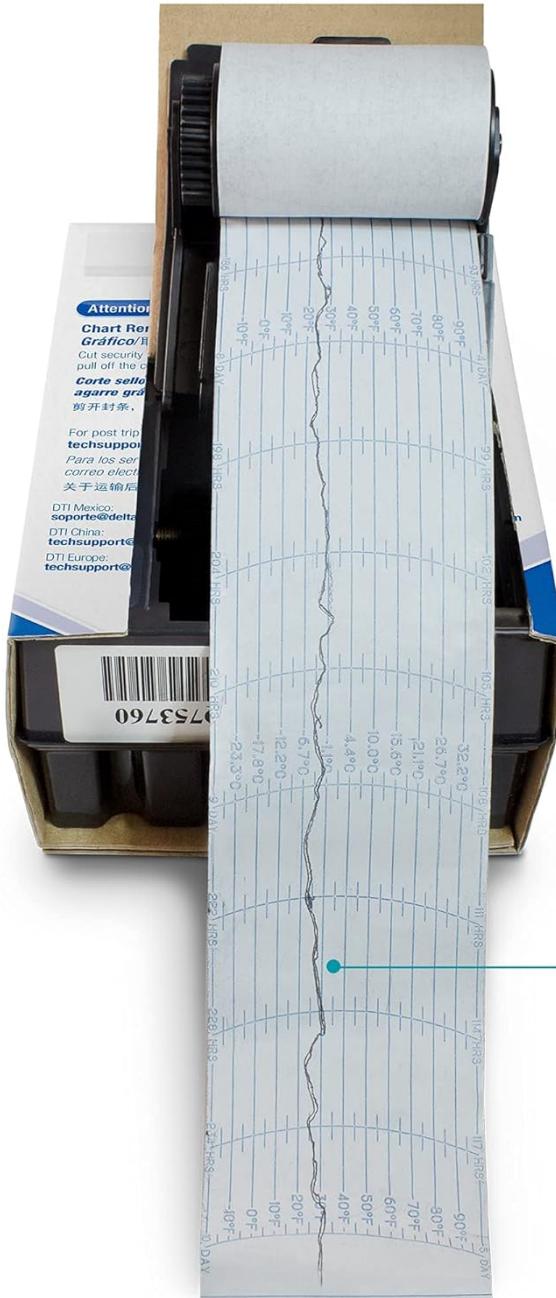
4.1. Recording Data

Once activated, the recorder continuously measures and plots temperature data onto a pressure-sensitive chart paper. The chart moves at a constant speed, providing a time-stamped record of temperature over the 5-day duration.

4.2. Reading the Chart

The chart displays temperature readings in both Fahrenheit and Celsius. The horizontal axis represents time, and the vertical axis represents temperature. To read the chart:

- Identify the time corresponding to the desired reading on the horizontal axis.
- Follow the vertical line from that time up to the recorded temperature trace.
- Read the temperature value on the vertical axis at the point where it intersects the trace.



Easy-to-Read time and temperature chart in Fahrenheit and Celsius

Figure 4.1: Detailed view of the easy-to-read time and temperature chart.

4.3. Shipping Document

Each recorder includes a three-part shipping document for traceability. This document allows for recording important shipment details such as date, time, shipper, recipient, order number, and contents. The serial number of the recorder is also present for easy cross-referencing.



Figure 4.2: Internal view of the recorder packaging, highlighting the three-part shipping document and serial number.

5. MAINTENANCE

5.1. Cleaning

To maintain the device, wipe the exterior clean with a soft, damp cloth. Do not use abrasive cleaners or immerse the unit in water.

5.2. Battery Replacement

The DeltaTrak Model 16000 is designed for single use and comes with an included AA battery. Battery replacement is not intended for end-users.

6. TROUBLESHOOTING

If you encounter issues with your DeltaTrak Model 16000 recorder, consider the following:

- **No Chart Movement:** Ensure the activation tab has been fully pulled out. If the tab is fully removed and the chart is not moving, the unit may be defective.
- **Inaccurate Readings:** Verify that the recorder was placed in an appropriate location that accurately reflects the temperature of the goods. Avoid placing it directly against cold plates or heat sources.
- **Physical Damage:** If the unit appears physically damaged, its accuracy and functionality may be compromised.

For further assistance, please contact customer support.

7. SPECIFICATIONS

Feature	Detail
Model Name	16000
Recording Duration	5 Days
Temperature Range	-20°F to 100°F (-29°C to 38°C)
Display Type	Analog Chart
Power Source	1 AA Battery (included)
Special Feature	High Accuracy
Product Dimensions	14 x 17 x 7 inches; 9.35 Pounds (shipping dimensions for 20 units)
Outer Material	Plastic
Product Care Instructions	Wipe Clean

8. WARRANTY INFORMATION

For detailed warranty information regarding your DeltaTrak Model 16000 Temperature Chart Recorder, please refer to the documentation provided with your purchase or contact DeltaTrak customer support directly. Warranty terms and conditions may vary.

9. CUSTOMER SUPPORT

If you require further assistance, have questions, or need to report an issue, please contact DeltaTrak customer support:

Email: techsupport@deltatrak.com

Phone: (800) 962-6776