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ETURBEV DT-171

ETURBEV DT-171 Temperature and Humidity Data Recorder User Manual

Model: DT-171

1. Introduction

The ETURBEV DT-171 is an intelligent USB data recorder designed for monitoring and logging temperature and humidity levels. This device is ideal for various applications requiring precise environmental data collection, such as laboratories, storage facilities, and transportation. Its compact design and USB interface allow for easy data retrieval and analysis.

2. Safety Information

Please read and understand all safety instructions before operating the DT-171 data recorder. Failure to follow these instructions may result in damage to the device or personal injury.

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity beyond its specified operating range.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to open or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from water and other liquids.
- Dispose of the device and its components according to local environmental regulations.

3. Product Overview

The DT-171 data recorder is a compact unit with integrated sensors for temperature and humidity. It features a USB interface for configuration and data download.

3.1 Device Components

- **USB Connector:** For connecting to a computer.
- **REC Indicator:** Lights up when recording data.
- **ALM Indicator:** Lights up when an alarm condition (e.g., temperature/humidity out of range) is met.
- **Sensor Vents:** Openings for air circulation to allow accurate temperature and humidity readings.

3.2 Device Views





Figure 1: Front view of the DT-171 data recorder with the USB protective cap in place. The REC and ALM indicators are visible.



Figure 2: The DT-171 data recorder shown with its USB connector exposed and placed on a small stand. This view highlights the device's compact form factor and the USB interface ready for connection.





Figure 3: Side view of the DT-171 data recorder, illustrating its slim profile and the general shape of the casing.





Figure 4: Top-down view of the DT-171 data recorder with the USB connector exposed, showing the overall layout and the sensor vents at the bottom.

4. Setup

Before using your DT-171 data recorder, follow these steps for initial setup:

1. **Install Software:** The DT-171 requires dedicated software for configuration and data analysis. Insert the provided mini-CD (if included) into your computer's CD-ROM drive and follow the on-screen instructions to install the software. If no CD is provided, please visit the ETURBEV official website to download the latest software version.
2. **Connect Device:** Remove the protective cap from the USB connector. Plug the DT-171 directly into an available USB port on your computer. The computer should recognize the device and install necessary drivers automatically.
3. **Configure Settings:** Launch the installed software. The software will detect the connected DT-171. Use the software interface to configure recording parameters such as:
    - Sampling rate (e.g., every 10 seconds, 1 minute, 1 hour)
    - Start mode (e.g., immediate, scheduled, button press)
    - Alarm thresholds for temperature and humidity
    - Logging duration or memory overwrite settings
    - Time and date synchronization
4. **Start Recording:** Once configured, disconnect the DT-171 from the computer. The device is now ready to begin recording based on your settings.

5. Operating Instructions

5.1 Starting Data Logging

The method for starting data logging depends on the configuration set in the software:

- **Immediate Start:** If configured for immediate start, the device will begin logging as soon as it is disconnected from the computer after configuration.
- **Scheduled Start:** If a scheduled start time was set, the device will automatically begin logging at the specified date and time.
- **Manual Start:** Some models may feature a button for manual start/stop. Refer to your software settings for this option.

When logging is active, the **REC** indicator will typically flash or remain steadily lit, depending on the device's status and configuration.

5.2 Monitoring Indicators

- **REC Indicator:**
  - **Solid Green:** Device is actively recording data.
  - **Flashing Green:** Device is waiting for a scheduled start or is in a paused state.
- **ALM Indicator:**
  - **Solid Red:** Temperature or humidity has exceeded the configured alarm thresholds.
  - **Flashing Red:** Indicates a low battery warning or other system error.

5.3 Retrieving Data

To retrieve recorded data:

1. Plug the DT-171 into your computer's USB port.
2. Open the ETURBEV data logger software.
3. The software will automatically detect the device and prompt you to download the data. Follow the on-screen instructions to save the data to your computer.
4. The data can typically be viewed in graphical or tabular format within the software and exported to common file types like CSV or Excel for further analysis.

6. Maintenance

6.1 Cleaning

To ensure optimal performance and longevity of your DT-171:

- Wipe the exterior of the device with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or strong chemicals.
- Ensure the sensor vents are free from dust and debris. Use a soft brush or compressed air if necessary, but avoid inserting objects into the vents.

6.2 Storage

When not in use, store the DT-171 in a cool, dry place, away from direct sunlight and extreme temperatures. Keep the USB protective cap in place to prevent dust and damage to the connector.

6.3 Battery Information

The DT-171 contains an internal, non-rechargeable lithium battery that powers the device when disconnected from USB. The battery life is typically several months to a year, depending on usage and sampling rate. When the ALM indicator flashes red, it may indicate a low battery. The battery is not user-replaceable. If the battery needs replacement, please contact ETURBEV customer support or a qualified service center.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device not recognized by computer.	USB connection issue. Drivers not installed. Faulty USB port.	Ensure the device is fully inserted into the USB port. Try a different USB port. Reinstall the ETURBEV software to ensure drivers are correctly installed. Restart your computer.
REC indicator not lighting up.	Device not configured to start recording. Battery low or depleted. Device memory full.	Connect to computer and verify recording settings in the software. Check battery status via software. If low, replace device or contact support. Download data and clear device memory using the software.
ALM indicator is solid red.	Temperature or humidity outside set limits.	Check the environmental conditions where the device is placed. Review and adjust alarm thresholds in the software if necessary.
Inaccurate readings.	Sensor vents blocked. Device exposed to direct heat/cold sources or moisture. Device needs calibration.	Ensure sensor vents are clear. Relocate the device to a more stable environment. Contact customer support for calibration services if suspected.

8. Specifications

The following are the general specifications for the ETURBEV DT-171 Temperature and Humidity Data Recorder. Specifications are subject to change without notice.

Feature	Detail
Model	DT-171
Measurement Parameters	Temperature, Humidity
Interface	USB
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces (50 Grams)
Manufacturer	ETURBEV
Color	One Color (Typically Black)

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your ETURBEV DT-171 data recorder, please contact the retailer from whom you purchased the product or visit the official ETURBEV website for customer service contact details. Please have your purchase receipt and product model number available when contacting

support.

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