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› [TROTEC BL30 Temperature and Humidity Recorder User Manual](#)

## TROTEC BL30

# TROTEC BL30 Temperature and Humidity Recorder User Manual

Model: BL30

## 1. INTRODUCTION

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### 1.1 Product Overview

The TROTEC BL30 is a compact and reliable data logger designed for autonomous recording of air temperature and humidity. It is ideal for monitoring environmental conditions in various settings, including living spaces, workplaces, and storage facilities. The device features extensive memory, customizable recording intervals, an integrated alarm function, and a USB interface for easy data transfer and analysis.



Figure 1: Front view of the TROTEC BL30 Temperature and Humidity Recorder, showing the display and control buttons.

## 1.2 Key Features

- **Comprehensive Data Logging:** Autonomous recording of air temperature and humidity.
- **Extensive Memory Capacity:** Stores up to 32,000 measurements.
- **Customizable Recording Intervals:** Selectable intervals from 1 second to 24 hours.
- **Alert System:** Integrated alarm function for predefined environmental thresholds.
- **Effortless Data Transfer:** USB interface for PC connection and data analysis software.

## 1.3 Safety Information

Please read this manual carefully before operating the device. Keep this manual for future reference. 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.
- Avoid strong impacts or vibrations.
- Do not open the device casing except for battery replacement.
- Use only specified batteries.

- Keep the device out of reach of children.
- Dispose of batteries and the device according to local regulations.

## 2. SETUP

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### 2.1 Unpacking

Carefully remove the TROTEC BL30 from its packaging. Verify that all components are present and undamaged. The package should include the BL30 data logger and one AA battery.

### 2.2 Battery Installation

1. Locate the battery compartment on the back of the device.
2. Open the battery compartment cover.
3. Insert one AA battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 2: Back view of the TROTEC BL30, indicating the battery compartment and safety markings.

## 2.3 Software Installation

The BL30 requires dedicated software for data configuration, transfer, and analysis. This software is typically provided on a mini-CD or available for download from the TROTEC official website. Follow the on-screen instructions to install the software on your PC.

## 2.4 Initial Configuration (Time and Date)

Before first use, connect the BL30 to your PC via the USB interface and use the installed software to set the correct time and date. This ensures accurate timestamps for all recorded data.

# 3. OPERATING INSTRUCTIONS

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## 3.1 Basic Operation

The BL30 features a clear digital display and intuitive buttons for operation.

- **Power On/Off:** The device typically powers on automatically upon battery insertion. To turn off, refer to the software settings or specific button combinations if available.
- **Display:** The LCD monochrome display shows current temperature, humidity, time, and recording status.
- **TEMP/%RH Button:** Press to cycle through temperature and humidity readings.
- **MAX/MIN Button:** Press to view maximum and minimum recorded values.



Figure 3: The TROTEC BL30 data logger held in a hand, demonstrating its ergonomic and portable design.

### 3.2 Recording Data

1. **Setting Recording Intervals:** Use the PC software to configure the desired recording interval (e.g., every 10 seconds, 5 minutes, 1 hour).
2. **Starting Recording:** Once configured via software, the device will begin logging data automatically or upon a specific command from the software. The "REC" indicator on the display will confirm active recording.
3. **Stopping Recording:** Recording can be stopped via the PC software. Data logging will also cease when the memory is full or the battery is depleted.

### 3.3 Alarm Function

The BL30 features an alarm function to alert users when predefined temperature or humidity thresholds are exceeded.

- **Setting Alarms:** Use the PC software to set upper and lower limits for temperature and humidity.
- **Alarm Indication:** When a threshold is crossed, the "ALM" indicator on the display will activate.

### 3.4 Data Transfer and Analysis

1. Connect the BL30 to your PC using a USB cable.
2. Launch the TROTEC analysis software.
3. Follow the software instructions to download the recorded data.
4. The software allows for graphical representation, export to various formats (e.g., Excel), and detailed analysis of the environmental data.

## 4. MAINTENANCE

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### 4.1 Cleaning

Wipe the device clean with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the device openings.

### 4.2 Battery Replacement

When the low battery indicator appears on the display, replace the AA battery as described in Section 2.2. Ensure the device is not actively recording data during battery replacement to prevent data loss.

### 4.3 Storage

Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use for extended periods. Remove the battery if storing for several months to prevent leakage.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your TROTEC BL30.

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed battery.	Check battery polarity or replace with a new AA battery.
No data recording.	Recording not initiated via software; memory full; battery low.	Ensure recording is started in the software. Download data to free memory. Replace battery.
Cannot connect to PC.	USB cable faulty; driver not installed; software not running.	Try a different USB port/cable. Reinstall software and drivers. Ensure software is open.
Alarm not triggering.	Alarm thresholds not set correctly; alarm function disabled.	Verify alarm settings in the software. Ensure alarm function is enabled.
Inaccurate readings.	Sensor obstruction; device exposed to extreme conditions.	Ensure sensors are clear. Move device to a stable environment.

## 6. TECHNICAL SPECIFICATIONS

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Specification	Detail
Model Name	BL30
Brand	TROTEC

Specification	Detail
Display Type	Digital, LCD Monochrome
Connectivity Technology	USB
Memory Capacity	32,000 measurements
Recording Intervals	1 second to 24 hours (configurable)
Upper Temperature Rating	50 Degrees Celsius
Response Time	1 Second
Power Source	1 AA battery (included)
Item Weight	91 g
Item Length	3.7 Inches
Outer Material	Plastic
Special Features	Alarm, Fast Reading System, High Accuracy, Low Battery Indicator
Indoor/Outdoor Usage	Indoor
Certification	CE

## 7. WARRANTY AND SUPPORT

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### 7.1 Product Warranty

The TROTEC BL30 comes with a standard manufacturer's warranty. For detailed warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official TROTEC website. An optional 1-year extended warranty plan may be available from authorized resellers.

### 7.2 Customer Support

For technical assistance, troubleshooting, or service inquiries, please contact TROTEC customer support. Contact information can typically be found on the official TROTEC website or in your product packaging.