Testo 0572 1753

Testo 175 T3 Temperature Logger User Manual

Model: 0572 1753

1. PRODUCT OVERVIEW

The Testo 175 T3 temperature logger is designed for precise temperature recording across two channels using external thermocouple probes (Type T or Type K). It is suitable for applications requiring simultaneous temperature monitoring, such as heating system checks or industrial process control. The device features a clear display for current, min/max values, limit violations, and battery life, ensuring high data security with a large memory capacity and long battery life.

Figure 1: Front view of the Testo 175 T3 Temperature Logger, showing its display and control button.

Figure 2: The Testo 175 T3 in use within a meat display case, demonstrating its application in food temperature monitoring.

Figure 3: The Testo 175 T3 mounted inside a refrigerated transport vehicle, illustrating its use for monitoring temperatures during transit.

2. Box Contents

Upon unboxing, verify that all components are present:

- Testo 175 T3 temperature logger (2-channel, with external sensor connections for thermocouple type T and type K)
- Wall bracket
- Lock
- Batteries (3 x AAA)
- Calibration protocol

Note: External thermocouple probes and a USB cable for programming/reading are sold separately and are required for full functionality.

3. Setup

1. **Battery Installation:** The Testo 175 T3 uses 3 AAA batteries. These are included. Ensure correct polarity when inserting. The logger is designed to retain saved measurement data even if batteries are empty or replaced.

2. **Mounting:** Use the provided wall bracket to securely mount the logger in the desired measurement location.

3. **Probe Connection:** Connect the external thermocouple probes (Type T or Type K, purchased separately) to the two designated connections on the logger. The logger requires at least one external probe to be connected for operation.

4. **Initial Power On:** Once batteries are installed and probes connected, the device will power on. The display will show current readings.

4. OPERATING INSTRUCTIONS

4.1. Display Information

The clear display provides the following information:

- Current measuring values for both channels.
- Minimum (Min) and Maximum (Max) recorded values.
- Set limit values.
- Indications of limit value violations.
- Remaining battery life.

4.2. Data Logging

The Testo 175 T3 automatically logs data at a user-defined measuring rate, ranging from 10 seconds to 24 hours. It has a memory capacity of up to 1 million readings.

4.3. Programming and Data Analysis

To program the data logger and analyze measurement data, a USB cable (optional) and software are required. Three software versions are available:

- **ComSoft Basic:** Free download for fast programming and easy data analysis.
- **ComSoft Professional:** Optional purchase for more detailed analysis possibilities.
- **ComSoft CFR 21 Part 11:** Optional purchase, suitable for pharmaceutical sector requirements (CFR 21 Part 11).

Figure 4: The Testo 175 T3 connected to a laptop for programming and data analysis using ComSoft software.

5. MAINTENANCE

- **Cleaning:** The device has an IP65 protection class, offering protection against dust ingress and water spray/jets. For cleaning, wipe the exterior with a damp cloth. Do not use abrasive cleaners or solvents.

- **Battery Replacement:** When the battery indicator shows low power, replace the 3 AAA batteries. Ensure the device is powered off before replacement. Data security is maintained during battery changes.

- **Calibration:** Regular calibration is recommended to ensure continued accuracy. Refer to the calibration protocol included with your device for details.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device not powering on.	Dead or incorrectly installed batteries.	Replace batteries (3 x AAA) and ensure correct polarity.
No temperature readings displayed.	No external probe connected or probe faulty.	Connect at least one external thermocouple probe. Check probe connection and integrity.
Cannot connect to PC for data transfer.	USB cable not connected, driver issue, or software not running.	Ensure USB cable is securely connected. Install necessary drivers. Launch ComSoft software.
Inaccurate readings.	Probe damage or calibration required.	Inspect probes for damage. Consider professional calibration.

7. TECHNICAL SPECIFICATIONS

Parameter	Value
Temperature - TC Type K (NiCr-Ni)	
Measuring range	-50 to +1000 °C
Accuracy	±0.5 °C (-50 to +70 °C), ±0.7 % of mv (+70.1 to +1000 °C)
Resolution	0.1 °C
Temperature - TC Type T (Cu-CuNi)	
Measuring range	-50 to +400 °C
Accuracy	±0.5 °C (-50 to +70 °C), ±0.7 % of mv (70.1 to +1000 °C)
Resolution	0.1 °C
General Technical Data	
Storage temperature	-20 to +55 °C
Dimensions	89 x 53 x 27 mm
Operating temperature	-20 to +55 °C
Protection class	IP65
Channels	2 external
Measuring rate	10 s - 24 h
Battery type	3 x AlMn type AAA or Energizer
Battery life	3 years at 15 min. meas. rate
Memory	1,000,000 measuring values
Item Weight	130 g
Material	Polycarbonate (PC)

Parameter	Value
Display type	LCD
Connectivity	USB (with optional cable)

8. WARRANTY INFORMATION

The Testo 175 T3 Temperature Logger comes with a **2-year warranty**. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the documentation provided with your product or contact Testo customer support.

9. SUPPORT AND CONTACT

For technical support, software downloads (ComSoft Basic), or inquiries regarding optional accessories (probes, USB cable, ComSoft Professional/CFR 21 Part 11), please visit the official Testo website or contact your local Testo distributor. Contact information can typically be found on the Testo official website.

Related Documents - 0572 1753

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[Testo 160 Online Data Loggers User Manual](#)
User manual for the Testo 160 series of online data loggers, covering setup, operation, maintenance, and technical specifications for temperature, humidity, lux, and UV measurements.

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[testo Saveris 2 WiFi Data Logger System Instruction Manual](#)
Comprehensive instruction manual for the testo Saveris 2 WiFi data logger system, covering setup, configuration, operation, safety, technical data, and troubleshooting.

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testo 175 · Datenlogger Bedienungsanleitung testo 175 · Data loggers Instruction manual testo 175 · Enregistreur de données Mode d'emploi	[Testo 175 Data Loggers: Instruction Manual](#) Comprehensive instruction manual for the Testo 175 series of data loggers, covering operation, technical specifications, and maintenance for temperature and humidity monitoring.
testo 176 – 데이터 로거 사용설명서	[Testo 176 Data Logger User Manual - Temperature, Humidity, Pressure Monitoring](#) Comprehensive user manual for Testo 176 series data loggers, including models T1, T2, T3, T4, H1, H2, and P1. Learn about product usage, technical specifications, setup, operation, maintenance, and troubleshooting for accurate temperature, humidity, and pressure monitoring.
testo 176 データロガー 取扱説明書	[testo 176](#) testo 176 testo 176 T1, T2, T3, T4, H1, H2, P1 GO testo ComSoft
testo Comfort Software Basic 5 instruction manual	[Testo Comfort Software Basic 5 Instruction Manual](#) This manual provides comprehensive instructions for using the Testo Comfort Software Basic 5, covering installation, configuration, data import, and evaluation of measurement data from Testo data loggers.