Elitech IPT-100S

Elitech IPT-100S Digital Bluetooth Thermometer Hygrometer User Manual

Model: **IPT-100S** | Brand: **Elitech**

1. INTRODUCTION

The Elitech IPT-100S is a digital Bluetooth thermometer and hygrometer designed for accurate and continuous monitoring of temperature and humidity. It features a large 4.5-inch LCD display, Bluetooth connectivity for real-time data viewing via a mobile application, and a data storage capacity of up to 5000 points. This device is suitable for various applications, including industrial warehouses, laboratories, pharmacies, and other environments requiring precise environmental control.

2. SAFETY INFORMATION

- Read all instructions carefully before operating the device.
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Keep the device away from water and other liquids.
- Use only the specified battery type (3 AAA batteries).
- Do not attempt to disassemble or repair the device yourself. Contact customer support if service is required.
- Dispose of batteries according to local regulations.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Elitech IPT-100S Thermometer Hygrometer Unit
- External Temperature Probe
- 3 x AAA Batteries
- User Manual (this document)

4. SETUP

4.1. Battery Installation

1. Open the battery compartment cover on the back of the device.

2. Insert the 3 AAA batteries, ensuring correct polarity (+/-).

3. Remove the insulating tab from the battery compartment to power on the device.

4. Close the battery compartment cover securely.

The device will power on automatically after battery installation.

Figure 1: Battery installation and removal of insulating tab.

4.2. App Download and Bluetooth Connection

1. Download the **"Elitech Tools"** app from the App Store (iOS) or Google Play Store (Android).

2. Ensure Bluetooth is enabled on your mobile device.

3. On the IPT-100S, long press the Bluetooth button (refer to Section 5.2 for button functions) to activate Bluetooth pairing mode. The Bluetooth icon on the display will flash.

4. Open the Elitech Tools app and search for nearby devices. Select "IPT-100S" to connect.

5. Once connected, the Bluetooth icon on the device display will become solid.

Figure 2: Steps for app download and Bluetooth connection.

4.3. Sensor Selection

The IPT-100S supports both internal and external sensors. You can switch between them with a single click.

Figure 3: Switching between internal and external sensor readings.

5. OPERATING INSTRUCTIONS

5.1. Display Overview

The 4.5-inch LCD display provides clear readings of temperature, humidity, time, and other indicators.
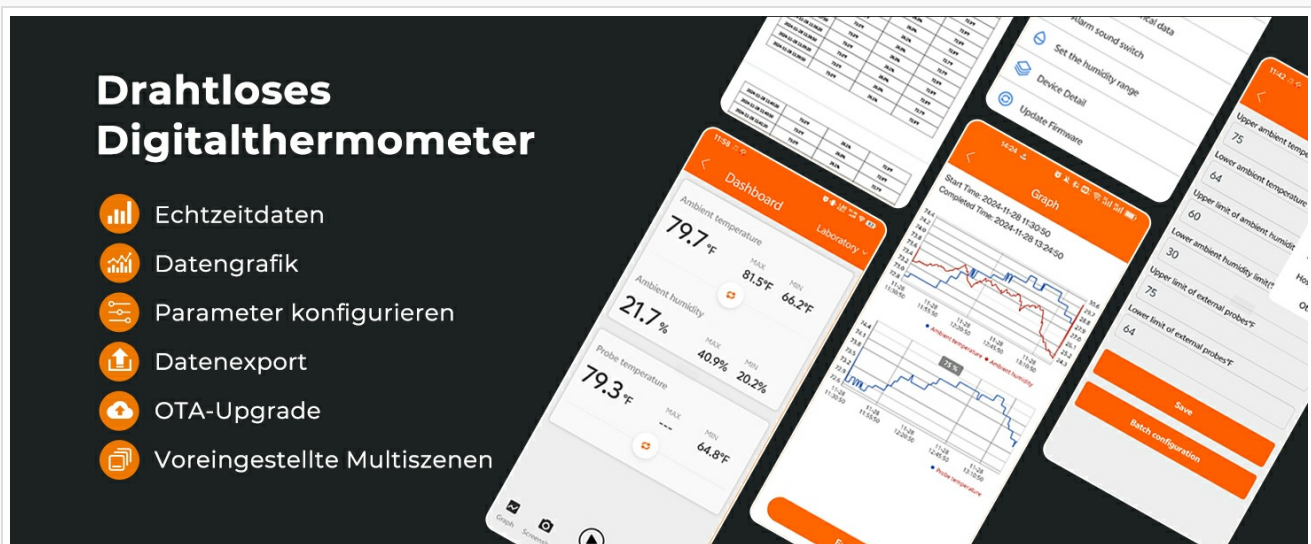

Figure 4: Elitech IPT-100S 4.5-inch large display.

Key display elements include:

- **Temperature:** Current temperature reading.

- **Humidity:** Current humidity reading.

- **Time:** Current time.

- **MAX/MIN:** Maximum and minimum recorded values.

- **Comfort Level Indicator:** Shows if humidity is Wet, Comfort, or Dry.

- **Battery Indicator:** Displays current battery level.

- **Bluetooth Icon:** Indicates Bluetooth connection status.

Figure 5: Humidity comfort level indication.

5.2. Button Functions

The device features buttons for various operations:

Action	Function
Short Press	- View Max, Min, or Current values. - Display historical data. - Switch between internal or external sensor.
Long Press	- Reset Max and Min values. - Switch temperature unit (°C/°F). - Activate Bluetooth mode.

Figure 6: Button functions for short and long presses.

Figure 7: Displaying MAX, MIN, and Current values.

5.3. Using the Elitech Tools App

The Elitech Tools app enhances the functionality of your IPT-100S, allowing for remote monitoring and advanced settings.

Figure 8: Viewing real-time data remotely via the app.

App features include:

- **Real-time Data:** View current temperature and humidity readings.
- **Data Graph:** Visualize historical data trends.
- **Configure Parameters:** Adjust settings such as recording interval, alarm limits, and unit.
- **Data Export:** Export recorded data in PDF, CSV, or XLS formats. The device stores up to 5000 data points.
- **OTA Update:** Receive firmware updates for improved performance.
- **Preset Multi-Scenes:** Select predefined settings for common environments like laboratories, industrial warehouses, or pharmacies.

Figure 9: Elitech Tools app features for data management and configuration.
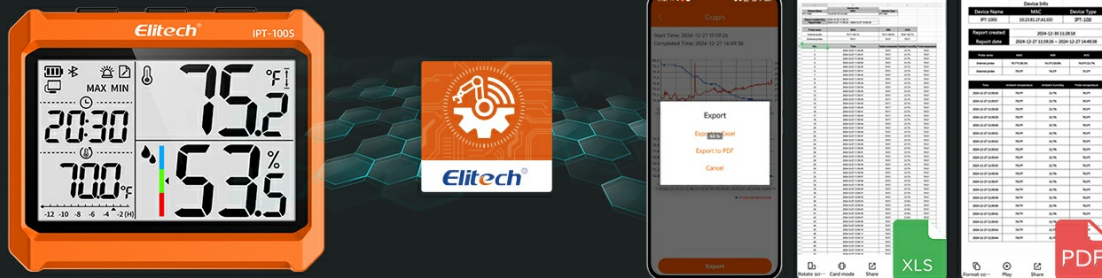
Figure 10: Preset multi-scenes in the Elitech Tools app.

Figure 11: Data export functionality via the app.

5.4. Smart Alarm Function

Set custom high and low limits for temperature and humidity within the Elitech Tools app. The device will trigger an alert if readings fall outside these predefined ranges, providing critical value protection.

5.5. Temperature Unit Switching

You can switch between Celsius (°C) and Fahrenheit (°F) units directly on the device by long-pressing the appropriate button (refer to Section 5.2) or through the Elitech Tools app settings.

Figure 12: Switching temperature units in the app.

6. MAINTENANCE

6.1. Battery Replacement

When the battery indicator on the display shows low power, replace all three AAA batteries. Refer to Section 4.1 for battery installation instructions.

6.2. Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the device is dry before use.

6.3. Mounting Options

The IPT-100S can be mounted using its strong magnet on metallic surfaces or hung via the integrated hanging hole. It also features an adjustable bracket for tabletop use.

Figure 13: Mounting options: strong magnet and adjustable bracket.

7. TROUBLESHOOTING

- **Device not powering on:** Check battery installation and ensure the insulating tab has been removed. Replace batteries if necessary.

- **Cannot connect via Bluetooth:** Ensure Bluetooth is enabled on both the device and your mobile phone. Make sure the device is in pairing mode (Bluetooth icon flashing). Restart both the device and the app.

- **Inaccurate readings:** Ensure the sensor is not obstructed and is placed in a stable environment. Allow sufficient time for readings to stabilize after placement or power-on.

- **App not displaying data:** Verify Bluetooth connection. Ensure the app has necessary permissions on your phone.

8. SPECIFICATIONS

Feature	Specification
Model Number	IPT-100S
Manufacturer	Elitech
Internal Sensor Temperature Range	-10°C to 50°C (14°F to 122°F)
External Sensor Temperature Range	-20°C to 70°C (-4°F to 158°F)
Temperature Accuracy	±0.5°C (0°C to 40°C), ±1°C (other ranges)
Humidity Measurement Range	10% to 99% RH
Humidity Accuracy	±5% RH
Data Storage Capacity	5000 data points
Display Type	Digital LCD (4.5 inches)
Connectivity	Bluetooth
Power Source	3 x AAA Batteries (included)

Feature	Specification
Battery Life	Up to 180 days (approx.)
Special Features	Dual time display, Shock resistant, Smart alarm, Data export
Material	Plastic
Color	Orange
Package Dimensions	16.1 x 11.2 x 2.7 cm; 260 grams

9. WARRANTY INFORMATION

Elitech products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included in your package or visit the official Elitech website for detailed warranty terms and conditions.

10. SUPPORT

For technical assistance, troubleshooting, or any questions regarding your Elitech IPT-100S, please contact Elitech customer support. Contact information can typically be found on the Elitech official website or on the product packaging.
Elitech Official Website: www.elitechlog.com