Tzone Temp U06L100

Tzone Bluetooth Temperature Data Logger User Manual

Model: Temp U06L100

PRODUCT OVERVIEW

The Tzone Temp U06L100 is a versatile Bluetooth temperature data logger designed for precise monitoring and recording of temperature-sensitive products. It features a wide measurement range, an external probe, and convenient data reporting capabilities via both mobile application and USB connection.

Figure 1: Tzone Temp U06L100 Data Logger and Mobile App Interface.

This image displays the Tzone Temp U06L100 data logger, featuring its USB interface, LCD screen, and external temperature probe. Alongside the device, a smartphone screen shows the accompanying mobile application, illustrating how temperature data is presented and managed.

Key Features:

- **Bluetooth Connectivity:** Connects via Bluetooth 4.0 or above to a mobile app for real-time data reading, parameter settings, and report downloads.

- **Wide Measurement Range:** Capable of measuring temperatures from -148°F to 176°F (-100°C to 80°C).

- **LCD Display:** Shows current, maximum, and minimum temperature values, along with logging quantity.

- **High Data Capacity:** Stores up to 32,000 temperature recordings.

- **External Temperature Probe:** Includes a 1.5-meter detachable probe for flexible placement and accurate readings without pre-cooling the main unit.

- **USB Auto Report Generation:** Automatically generates PDF and CSV reports when plugged into a computer, requiring no additional software.

- **IP65 Waterproof Rating:** Designed to function reliably in wet environments.
- **Magnetic Design:** Features a magnetic back for convenient attachment to metallic surfaces like refrigerators.

SETUP GUIDE

1. **Unboxing and Inspection:** Carefully remove the data logger, external temperature probe, and user manual from the packaging. Inspect all components for any visible damage.

2. **Connect the External Probe:** Ensure the 1.5M external temperature probe is fully and securely inserted into the designated port on the data logger. An "E001" error will be displayed if the probe is not correctly connected, preventing the device from starting.

3. **Power On:** The device is battery-powered. Ensure batteries are correctly installed. The LCD screen should illuminate.

4. **Download the Mobile App:** Scan the QR code provided in the physical user manual or search for the "Tzone" app on your smartphone's app store (iOS or Android). Install the application.

5. **Enable Bluetooth:** On the data logger, press the "START" and "STOP" buttons simultaneously to activate Bluetooth pairing mode. The Bluetooth icon on the LCD screen will indicate it is active. On your smartphone, enable Bluetooth and open the Tzone app to search for and connect to your device.

6. **Initial Parameter Settings (Optional):** Within the app, you can configure various parameters such as logging interval, high/low temperature alarms, and password protection. Refer to the "Parameter Settings" section for detailed instructions.

Figure 2: Parameter Setting Process via Mobile App.

This image illustrates the step-by-step process for configuring the Tzone data logger using the mobile application. It shows how to activate Bluetooth, connect to the app, view data, and access the settings menu for customization.

OPERATING INSTRUCTIONS

Starting and Stopping Logging:

- To start logging, press the **"START"** button. The logging indicator on the LCD will activate.
- To stop logging, press and hold the **"STOP"** button until the logging indicator turns off.

Viewing Data on LCD:

The LCD screen displays real-time temperature readings. You can cycle through current, maximum (MAX), and minimum

(MIN) temperature values, as well as the number of recorded data points, by pressing the **"VIEW"** button.

Figure 3: LCD Digital Thermometer Recorder Display.

This image highlights the LCD screen of the Tzone data logger, showing a temperature reading of -18.8°C. It also indicates the low temperature measuring range of -100°C to 80°C (-148°F to 176°F).

Using the Mobile App:

- Once connected via Bluetooth, the app will display real-time temperature data and logging status.
- Navigate through the app to view historical data, graphical trends, and summary reports.
- **Setting Alarms:** Configure high and low temperature alarm thresholds within the app. The device will alert you if temperatures exceed or fall below these set points.
- **Data Export:** The app allows you to download recorded data directly to your phone, which can then be shared via email or other applications.

Figure 4: Bluetooth Temperature Data Logger in Application.

This image demonstrates the Tzone Bluetooth temperature data logger in use, placed inside a refrigerator with its external probe monitoring the internal temperature. A smartphone displays the app interface, showing real-time temperature readings and indicating high/low temperature alarm capabilities.

Generating USB Reports:

To obtain detailed reports, remove the USB cover and plug the data logger directly into a computer's USB port. The device will automatically generate PDF and CSV reports, which can be found as files on the connected drive. No special software installation is required for this function.

Figure 5: Two Modes of Data Report Export.

This image illustrates the dual functionality of the Tzone data logger for exporting data reports. It shows the device connected to a laptop displaying auto-generated PDF and CSV files, while simultaneously showing a smartphone screen with the mobile app's data summary, emphasizing that no additional software is required for USB reports.

MAINTENANCE

Battery Replacement:

The Tzone Temp U06L100 is powered by a replaceable battery. When the battery indicator on the LCD screen shows low power, replace the battery to ensure continuous operation and accurate data logging. Refer to the device's back panel for battery compartment access and type.

Cleaning:

Wipe the device and probe with a soft, damp cloth. Do not use abrasive cleaners or solvents. While the device is IP65 waterproof, avoid submerging it in water for extended periods.

Storage:

When not in use for extended periods, store the data logger in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for very long durations to prevent leakage.

TROUBLESHOOTING

- **"E001" Error on Startup:** This error indicates that the external temperature sensor is not completely inserted into the device. Ensure the probe's jack is fully seated in its port. The device will not begin logging until this error is resolved.

- **Bluetooth Connection Issues:**

  - Ensure Bluetooth is enabled on both the data logger (by pressing START and STOP simultaneously) and your smartphone.
  - Make sure the data logger is within the Bluetooth range of your smartphone.
  - Restart both the data logger and your smartphone, then try connecting again.
  - Verify that the Tzone app has the necessary Bluetooth permissions on your phone.

- **No Data Report via USB:**

  - Ensure the data logger is securely plugged into a functioning USB port on your computer.
  - Check if the device appears as a removable drive on your computer.
  - Try a different USB port or computer.

- **Inaccurate Readings:**

  - Ensure the external probe is clean and free from obstructions.
  - Verify the probe is placed correctly in the environment you wish to monitor.
  - Check battery level; low battery can affect accuracy.

SPECIFICATIONS

Feature	Detail
Model Number	Temp U06L100
Measurement Range	-148°F to 176°F (-100°C to 80°C)
Temperature Accuracy	0.5 °C
Data Capacity	32,000 recordings
Connectivity	Bluetooth (4.0 or above), USB
Waterproof Rating	IP65
Power Source	Battery Powered (Replaceable)
Included Components	Temperature Data Logger, Temperature Probe, User Manual
Color	Black
Dimensions (Approx.)	6 x 4 x 1 inches (Package)
Weight (Approx.)	6.35 ounces (Package)

Figure 6: Product Dimensions and Magnetic Back Splint.

This image provides the approximate dimensions of the Tzone Temp U06L100 data logger (47mm x 84mm) and its separate magnetic back splint (50mm x 115mm). It also indicates the data capacity, replaceable battery, and IP65 waterproof grade.

Figure 7: Labeled Components of the Data Logger.

This diagram labels the key components of the Tzone Temp U06L100 data logger, including the USB Cover, USB Interface, External Probe, LCD Screen, Start/View/Mark Button, LED Light, Stop Button, Machine ID, Back Splint, and Magnetic Back.
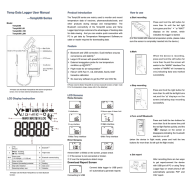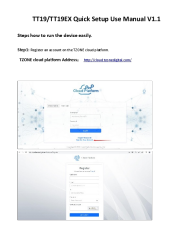
WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Tzone customer support directly.

For technical assistance, troubleshooting, or further inquiries, please visit the official Tzone website or contact their customer service department. Contact information can typically be found on the product packaging or the Tzone brand store on Amazon.

No official product videos from the seller were found to be included in this manual.

Related Documents

	Tzone TempU06 Series Temperature Data Logger User Manual User manual for the Tzone TempU06 series temperature data loggers, detailing features, operation, configuration, and technical specifications for monitoring temperature in storage and transportation of sensitive goods like vaccines, pharmaceuticals, and food.
	Tzone Digital Technology: Temperature and Humidity Monitoring Solutions Explore Tzone Digital Technology's comprehensive range of temperature and humidity data loggers, transmitters, and monitoring systems, including USB, GSM, BLE, LoRa, RF, and WiFi series for various applications.
	TZ-WF501B WiFi Temperature and Humidity Sensor | TZONE Discover the TZONE TZ-WF501B, a WiFi-enabled sensor for real-time temperature and humidity monitoring. Features include auto PDF reports, LCD display, built-in alarm, and extensive applications in labs, agriculture, pharmaceuticals, and warehouses.
	TT19/TT19EX Quick Setup Guide A comprehensive guide to setting up and using the TT19/TT19EX real-time data logger, including device registration, SIM card insertion, battery connection, and data querying.