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Frigga T71 Pro

Frigga T71 Pro 4G/5G Real-Time Temperature Data Logger User Manual

Model: T71 Pro

1. PRODUCT OVERVIEW

The Frigga T71 Pro is a multi-use, real-time data logger designed for monitoring temperature, humidity, light, shock, tilt, and location. It supports 4G/5G global networks and features an external sensor for extended temperature range monitoring. This device is suitable for various applications requiring precise environmental control, such as cold chain logistics and pharmaceutical storage.

Key features include:

- Real-time reporting and alarming for multiple parameters.
- Automatic flight mode for airline compliance.
- Dual PDF report system for data traceability and backup.
- Large local storage capacity (50,000 data points).
- Rechargeable battery with long operational life.

Re-Define Real-Time Pharma Monitoring



-  Dual Temperature: -40°F to +176°F
-  Humidity: 5%-95%RH
-  Light: 0-52000 Lux
-  Shock: 1-8 G
-  Tilt: 0-180°
-  Location
-  Auto Flight Mode
-  Local PDF Report Backup

Image 1.1: The Frigga T71 Pro device showing its display and various monitoring capabilities including dual temperature, humidity, light, shock, tilt, location, auto flight mode, and local PDF report backup.



Image 1.2: Illustrates the diverse applications of the T71 Pro, such as cold-chain transportation, medicine storage, food refrigeration, greenhouse monitoring, environmental testing, and industrial use.

2. DEVICE COMPONENTS AND DISPLAY

Familiarize yourself with the device's physical components and display indicators.

Product Parameter



Note: The AC code (Activation code) is in the back of device

Image 2.1: Diagram identifying the Indicator LED, LCD Display, Start/Stop Key, Bluetooth Printing button, Display Info button, Sleep Mode (Flight Mode) button, Light Sensor, and Device ID label. The activation code (AC code) is located on the back of the device.

- **Indicator LED:** Provides status indications (e.g., recording, alarm).
- **LCD Display:** Shows real-time data, status, and settings.
- **Start/Stop Key:** Initiates and terminates data recording.
- **Bluetooth Printing:** For connecting to a Bluetooth printer.
- **Display Info:** Cycles through various display screens.
- **Sleep Mode (Flight Mode):** Activates/deactivates flight mode.
- **Light Sensor:** Detects ambient light changes.
- **Device ID:** Unique identifier for the logger.

3. SETUP AND INITIAL CONFIGURATION

3.1 Charging the Device

Before initial use, fully charge the T71 Pro using the provided USB connector. The device is rechargeable and

designed for long-lasting operation.

3.2 Device Activation

Locate the Activation Code (AC code) on the back of your device. This code is required for initial setup and linking the device to the Frigga cloud platform.

3.3 Frigga Cloud Platform and App Setup

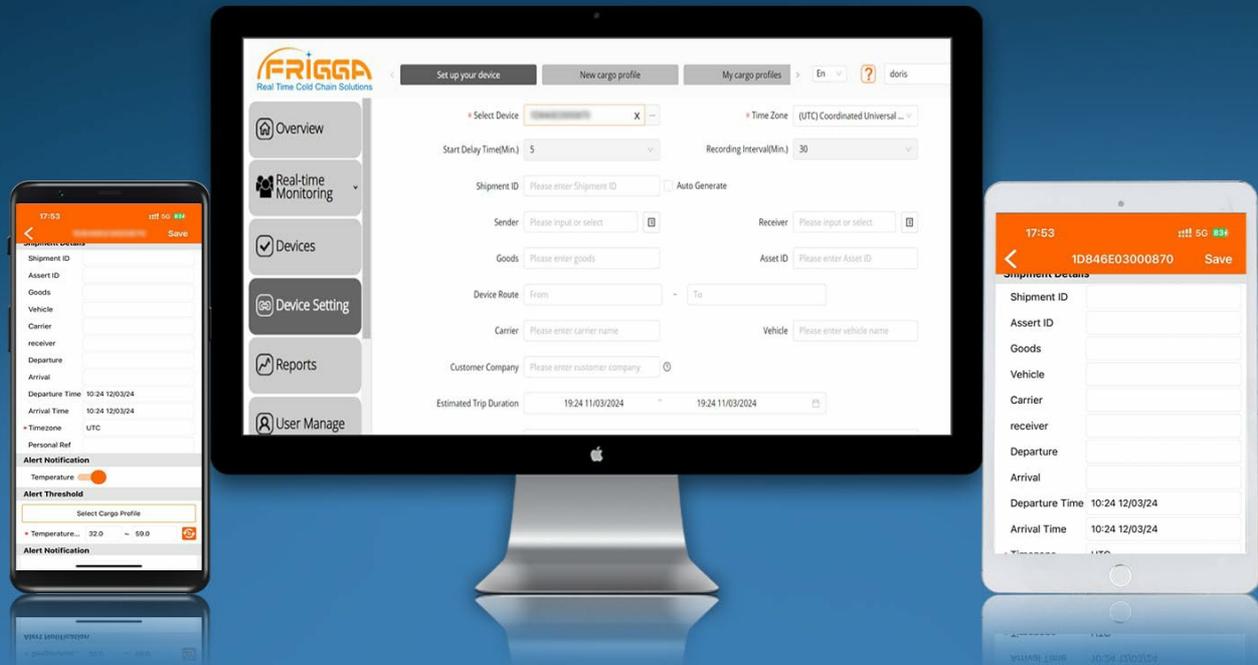
To utilize real-time monitoring and remote parameter settings, register an account on the Frigga cloud platform and download the Frigga mobile application (available for Android and iOS). Follow the on-screen instructions to add your T71 Pro device using its Device ID and Activation Code.

3.4 Remote Parameter Settings

Once connected to the Frigga cloud platform, you can remotely configure various parameters for your device, including:

- Temperature unit switch (Celsius/Fahrenheit).
- Settable alarm ranges for temperature and humidity.
- Data logging interval (e.g., 1, 2, 5, 10, 30, 60 minutes).

Remote Parameter Settings



Temperature unit switch



Settable alarm ranges



Data storage & analysis

Image 3.1: The Frigga cloud platform interface for setting device parameters remotely, including temperature units, alarm thresholds, and data logging intervals.

4. OPERATING INSTRUCTIONS

4.1 Starting and Stopping Recording

Press the **Start/Stop Key** (refer to Image 2.1) to begin a new recording session. Press it again to stop recording. Ensure the device is properly configured before starting a new session.

4.2 Real-Time Monitoring and Alerts

The T71 Pro continuously monitors environmental conditions. In case of deviations from set thresholds, the device will send real-time alerts via Email, SMS, and the Frigga App. This allows for timely corrective actions.



Real Time Monitor & Instant Alerts



Frigga Track

Device Dewav888 triggered a temperature alert, 15.5°C (59.9°F)



Image 4.1: An example of a real-time temperature alert notification received via the Frigga Track app, indicating a temperature deviation.

4.3 Auto Flight Mode

The device features an auto flight mode. When flights take off, the device automatically switches to flight mode, recording and storing data locally. Upon landing, it automatically exits flight mode and uploads all stored data to the Frigga cloud platform, ensuring no data loss during air travel.

4.4 Data Storage and Reporting

The T71 Pro stores up to 50,000 data points locally. Data can be accessed and exported in multiple ways:

- **USB 2.0 Connection:** Download PDF reports directly to a PC without requiring special software.
- **Frigga Cloud Platform/App:** Remotely download reports and view detailed data analysis.
- **Bluetooth Printing:** Print reports directly from the device using a compatible Bluetooth printer.

Multiple Ways for Report Exporting

- Can be downloaded via USB 2.0 connection to PC (no software installation required)
- Remote download via Frigga cloud platform and APP
- Bluetooth printing



Image 4.2: Illustrates the various methods for exporting data reports, including direct USB connection, remote access via the Frigga cloud platform and app, and Bluetooth printing.

Large Capacity Data Storage Offline 50000 Points Backup

- Support cyclic recording after full capacity
- No upper limit for Frigga Cloud Platform



Record temperature changes in real time

Data	Reporting time
56.3°F	14:10:00 01/05/2023
61.2°F	14:20:00 01/05/2023
58.3°F	14:30:00 01/05/2023
59.2°F	14:40:00 01/05/2023
57.3°F	14:50:00 01/05/2023
60.3°F	15:00:00 01/05/2023



Data Logging Interval: 1/2/5/10/30/60 Min. (Settable via platform)

Image 4.3: The device display showing current readings and a graphical representation of temperature and humidity data over time, demonstrating its large capacity data storage and logging capabilities.

5. MAINTENANCE

5.1 Cleaning

Wipe the device clean with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the polycarbonate (PC) outer material or electronic components.

5.2 Battery Management

The T71 Pro is equipped with a rechargeable battery. Ensure the device is charged regularly, especially before long monitoring periods. The battery life can extend up to 120 days on a full charge with a 1-hour uploading interval.

6. TROUBLESHOOTING

6.1 Data Loss Prevention

The T71 Pro features a dual PDF report system and local storage to prevent data loss. If network connectivity is lost, data is stored locally and transmitted once the signal is restored. Always ensure the device has sufficient battery life for the duration of monitoring.

6.2 Connectivity Issues

If the device is not transmitting data or receiving alerts, check the following:

- Ensure the device is within an area with 4G/5G network coverage.
- Verify that the device is not in flight mode unintentionally.
- Check the device's battery level.
- Confirm that the device is correctly linked to your Frigga cloud account.

6.3 Display Issues

If the LCD display is not functioning correctly, ensure the device is charged. If the issue persists, contact customer support.

7. SPECIFICATIONS

Parameter	Value
Model Number	T71 Pro
Internal Temperature Range	-30°C to +70°C (-22°F to +158°F)
External Temperature Range	-40°C to +80°C (-40°F to +176°F)
Temperature Accuracy	±0.5°C (-20°C to +40°C), ±1°C (other ranges)
Humidity Range	5% to 95% RH
Humidity Accuracy	±3% (20% to 80% RH), ±5% (other ranges)
Light Detection	0-52000 Lux
Shock Detection	1-8 G
Tilt Detection	0-180°
Connectivity	Global LTE 4G/5G, fallback 2G network, USB
Data Storage Capacity	50,000 points (offline backup)
Battery Life	Up to 120 days (at 1-hour uploading interval)
Display Type	Digital LCD
Outer Material	Polycarbonate (PC)
Included Components	T71 Pro data logger, warranty card, calibration certificate, USB connector

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Your Frigga T71 Pro comes with a warranty card. Please refer to the card for specific warranty terms and conditions.

A multi-point temperature calibration certificate issued by the original factory is also included with each device.

8.2 Technical Support

For any problems or technical assistance, please contact Frigga customer support. 24/7 technician support is available via email.