# Temperature Detection Operating Manual

## Dual-Frequency RFID Temperature Monitoring & Logging Label

## Preparation

Before performing the test, please prepare an Android smartphone that supports NFC functionality and download the compatible temperature measurement Android APK on the device.

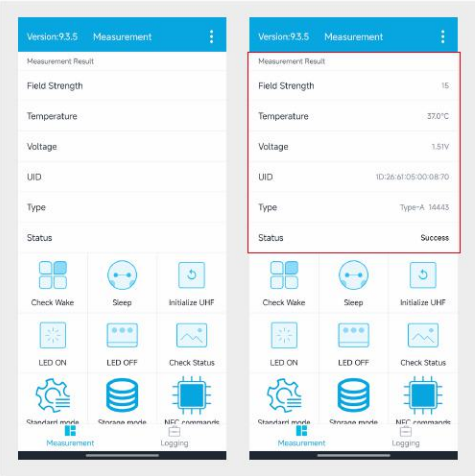
# Operating Procedure

## 1. Run the temperature measurement software.

### 1.1 The default interface is shown below:

Bring the smartphone near the temperature measurement label to obtain relevant measurement results (including field strength, temperature, voltage, UID, etc.). Move the smartphone away from the temperature label.

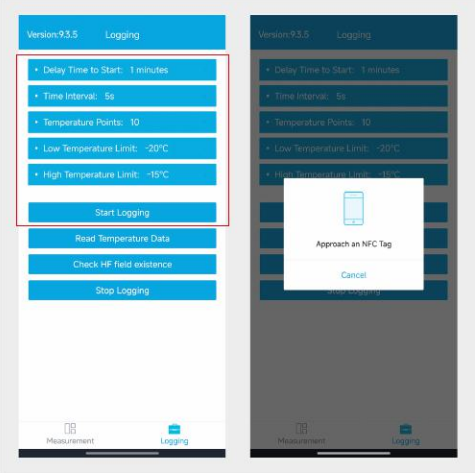
(Precautions: Instant temperature measurement is significantly affected by the phone's field strength. The temperature variation is large due to differences in the height at which the phone is held relative to the label.)




### 1.2 Scheduled Measurement Settings

After setting the relevant parameters, tap "Start Logging" to send the configuration command and enable the RTC temperature measurement button.

A prompt will pop up to bring the phone near the NFC label. When near the label, a prompt will appear confirming the successful activation of RTC temperature measurement.

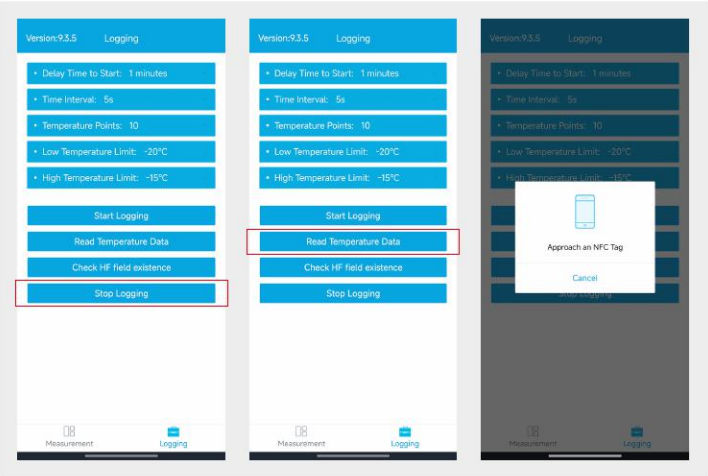


## 2. Record Reading.

Wait for the demo to automatically test the temperature 10 times.

Tap the "Stop Logging" button.

Next, tap the “Read Temperature Date” button. The app will switch to the record reading interface. Bring the phone near the label.

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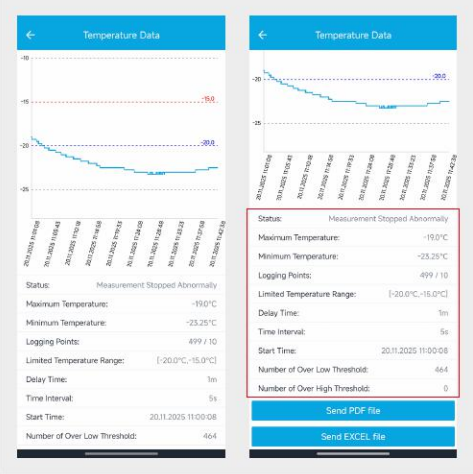
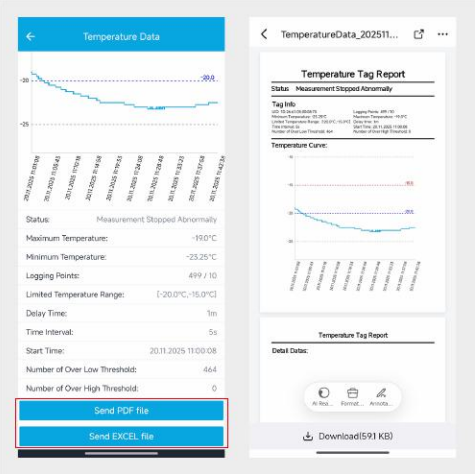
The app will automatically generate a temperature data curve and provide related information for the test.



## 3. Data Email Report.

Tap the “Send PDF file” or “Send EXCEL file”  button and input the email recipient information.

The file will be generated and the temperature data will be sent via email.




## RS-NUHTM-PP-12590

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|---|---|
| Material | Matte laminated PP synthetic paper |
| Label Size | 90×125 mm |
| Antenna Size | 68×80 mm |
| Operating Frequency | HF: 13.56 MHz, UHF: 860-960 MHz |
| Protocol | HF: ISO/IEC 14443-A, NFC Forum Type 2,<br>UHF: ISO/IEC 18000-63, EPC Class 1 Gen 2 |
| Operating Environment | -35°C~+50°C |
| EPC Memory | 160k bits |
| UID Memory | 7 bytes(HF) |
| TID Memory | 96 bits(UHF) |
| User Memory | 0~8k bits(Configurable area size) |
| TemperatureMeasurement Distance | 5 cm(NFC) |



To learn more about our RFID solutions or request a customized product or integration, please visit our website at https://www.rfidbridge.com or reach out to our sales team directly at sales@rfidbridge.com.