

Aideepen A7X132112UK

Aideepen Mini DC 4-28V Dual Display Digital  
Thermometer User Manual

Model: A7X132112UK

1. INTRODUCTION

Thank you for choosing the Aideepen Mini DC 4-28V Dual Display Digital Thermometer. This device is designed for accurate temperature measurement across a wide range, featuring a waterproof NTC metal probe for versatile applications. Its compact size and clear dual display make it suitable for various environments, including vehicles, rooms, and equipment enclosures.

Please read this manual carefully before installation and operation to ensure proper use and to maximize the product's lifespan.

2. FEATURES

- **Wide Operating Voltage:** DC 4-28V.
- **Broad Temperature Range:** Measures from -50°C to 120°C.
- **High Precision:** Display and control temperature can be set to 0.1°C.
- **Dual Digital Display:** Clear, easy-to-read red and green LED displays.
- **Waterproof NTC Metal Probe:** Durable and suitable for various environments, including immersion up to 1 meter.
- **Compact Design:** Easy to integrate into different setups.
- **Quick Response Time:** 1 second.



Image: The Aideepen dual display digital thermometer with its NTC metal waterproof probe, highlighting its features for vehicle and general temperature monitoring.

3. SETUP

3.1 Component Identification

- **Thermometer Unit:** The main display module with red and green LED segments.
- **NTC Waterproof Metal Probe:** The temperature sensing element with a cable.
- **Power Cables:** Red and black wires for power input.



Image: Overview of the Aideepen digital thermometer unit, including the main display module and the NTC waterproof metal probe with its connecting wires.

### 3.2 Wiring Instructions

1. Identify the power input terminals on the thermometer unit.
2. Connect the **red wire** to the positive (+) terminal of your DC power source (4-28V).
3. Connect the **black wire** to the negative (-) terminal of your DC power source.
4. Ensure the NTC metal probe is securely connected to its designated port on the thermometer unit.
5. Position the NTC probe in the area where temperature measurement is required. The probe is waterproof and can be immersed.

# Connection mode



Image: Diagram illustrating the connection mode for the Aideepen digital thermometer, showing the positive and negative power input terminals (DC 4-30V) and the probe connection.

## 3.3 Mounting

The thermometer unit is designed for panel mounting. Ensure adequate space for the unit and its connections. The NTC probe features a fixing hole for secure attachment to a surface if needed.



Image: Detailed view of the NTC waterproof metal probe, showing its dimensions and the fixing hole for mounting. The probe is NTC 10K 3950 1%.

## 4. OPERATING INSTRUCTIONS

Once properly wired and powered, the thermometer will automatically display the current temperature. The dual display shows the temperature in Celsius (°C).

- The **red display** typically shows the primary temperature reading.
- The **green display** typically shows a secondary temperature reading or can be used for comparison in some models. For this specific model, both displays show the same temperature for clarity.

The device is designed for continuous monitoring. No user calibration or setting adjustments are typically required for basic temperature display.



Image: Close-up view of the Aideepen digital thermometer's dual LED display, showing temperature readings in red and green digits.

## 5. MAINTENANCE

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- **Cleaning:** Wipe the display and unit with a clean, dry cloth. Do not use abrasive cleaners or immerse the main unit in water. The metal probe can be cleaned with a damp cloth.
- **Storage:** Store the thermometer in a dry environment, away from direct sunlight and extreme temperatures, when not in use.
- **Inspection:** Periodically check the wiring for any signs of damage or loose connections.

## 6. TROUBLESHOOTING

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- **No Display:**
  - Check power connections. Ensure the red wire is connected to DC positive (+) and the black wire to DC negative (-).

- Verify the power source is within the DC 4-28V range.
  - Inspect for any damaged wires or loose connections.
- **Inaccurate Readings:**
    - Ensure the NTC probe is correctly positioned and making good contact with the area to be measured.
    - Avoid placing the probe near heat sources other than the intended measurement area.
    - Compare readings with a known accurate thermometer if possible. Note that minor deviations (e.g., 0.5°C) can occur.
  - **Intermittent Display:**
    - Check for loose wiring connections at both the power source and the thermometer unit.
    - Ensure stable power supply.

## 7. SPECIFICATIONS

| Specification           | Value                                                                    |
|-------------------------|--------------------------------------------------------------------------|
| Brand                   | Aideepen                                                                 |
| Model Name              | A7X132112UK                                                              |
| Working Voltage         | DC 4-28V                                                                 |
| Temperature Range       | -50°C to 120°C                                                           |
| Display Resolution      | 0.1°C                                                                    |
| Display Type            | Digital LED (Red + Green)                                                |
| Probe Type              | NTC Waterproof Metal Probe                                               |
| Probe Immersion Depth   | Up to 1 Meter                                                            |
| Response Time           | 1 Second                                                                 |
| Outer Material          | Metal                                                                    |
| Connectivity Technology | Wired                                                                    |
| Included Components     | 2 x Dual Display DC 4-28V Thermometer NTC Metal Probe Temperature Sensor |

## 8. WARRANTY AND SUPPORT

This product is covered by a standard manufacturer's warranty. For specific warranty details, please refer to the product packaging or contact your retailer.

For technical support, troubleshooting assistance, or inquiries regarding your Aideepen product, please contact the seller or Aideepen customer service through the platform where the purchase was made. Please have your model number (A7X132112UK) and purchase details ready.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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