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› [Inkbird](#) /

› Inkbird NTC Probe with 2M DC Cord for 220V Digital Dual Relay Thermostat (5cm NTC Probe) User Manual

Inkbird ITC-308S NTC temperatuursonde

Inkbird NTC Probe User Manual

Model: ITC-308S NTC Temperatuursonde

1. INTRODUCTION

This manual provides detailed instructions for the Inkbird NTC Probe, designed for use with various Inkbird digital thermostats. This probe offers accurate temperature measurement and is built for durability in diverse environments. The Inkbird NTC Probe is compatible with Inkbird thermostat models such as ITC-308, ITC-308S, ITC-306T, ITC-310T-B, ITC-1000, and ITC-2000.

2. PRODUCT OVERVIEW



Figure 2.1: Inkbird NTC Probe with 2-meter DC cord. This image shows the full length of the probe and its connecting cord, highlighting the 3.5mm jack connector and the stainless steel sensor tip.



Figure 2.2: Close-up view of the Inkbird NTC Probe sensor tip and its connection to the cord. The image illustrates the 5cm stainless steel probe and the DC cord connection, emphasizing its robust design.

The NTC probe features a stainless steel sensor and a 2-meter DC cord, designed for easy connection and reliable temperature readings. Its waterproof IP68 rating ensures durability in various wet or humid conditions.

3. SPECIFICATIONS

Feature	Specification
Temperature Measurement Range	-50 ~ 120 °C / -58 ~ 248 °F

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Accuracy	0.1 °C / 0.1 °F
Sensor Type	NTC
Probe Material	Stainless Steel
Probe Dimensions	6mm x 50mm (0.24 x 1.97 inch)
Cord Length (excluding probe)	2m (6.5 feet)
Waterproof Level	IP68
Connector Type	DC Cord
Weight	60 Grams

4. SETUP AND INSTALLATION

The Inkbird NTC Probe is designed for simple plug-and-play installation with compatible Inkbird thermostats.

- 1. Identify the Probe Port:** Locate the dedicated probe input port on your Inkbird thermostat. This is typically a 3.5mm jack or a similar DC input.
- 2. Connect the Probe:** Insert the DC cord connector of the NTC probe firmly into the corresponding port on the thermostat. Ensure a secure connection.
- 3. Position the Sensor:** Place the stainless steel sensor tip in the environment where temperature measurement is required. Ensure the probe is fully immersed if measuring liquid temperatures, or positioned correctly for air temperature.
- 4. Secure the Cable:** Route the 2-meter cable safely to prevent tripping hazards or damage. Use cable ties or clips if necessary.
- 5. Power On:** Once the probe is connected and positioned, power on your Inkbird thermostat. The thermostat should automatically detect the probe and display the current temperature.

Note: Always refer to your specific Inkbird thermostat's user manual for detailed instructions on probe compatibility and setup procedures.

5. OPERATING INSTRUCTIONS

Once connected, the NTC probe continuously transmits temperature data to the compatible Inkbird thermostat. The thermostat then uses this data to regulate heating or cooling devices based on your set parameters.

- Temperature Display:** The current temperature measured by the probe will be displayed on the thermostat's screen.
- Calibration (if applicable):** Some Inkbird thermostats may offer a temperature calibration function. If you suspect a discrepancy in readings, consult your thermostat's manual for calibration steps.
- Environmental Considerations:** The probe is designed for a wide temperature range (-50 to 120 °C) and is IP68 waterproof, making it suitable for various applications including brewing, aquariums, terrariums, greenhouses, and reptile incubators.

6. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and accuracy of your Inkbird NTC Probe.

- **Cleaning:** Clean the stainless steel probe tip regularly, especially if used in liquids or environments prone to residue buildup. Use a soft cloth and mild detergent. Rinse thoroughly with clean water and dry before re-use.
- **Inspection:** Periodically inspect the probe cable for any signs of damage, such as cuts, kinks, or fraying. Check the connector for corrosion or bending.
- **Storage:** When not in use, store the probe in a clean, dry place, away from extreme temperatures and direct sunlight. Avoid coiling the cable too tightly.
- **Avoid Harsh Chemicals:** Do not use abrasive cleaners, solvents, or strong chemicals on the probe or cable, as these can damage the materials.

7. TROUBLESHOOTING

If you encounter issues with your Inkbird NTC Probe, consider the following common troubleshooting steps:

- **No Temperature Reading / Erratic Readings:**
 - Ensure the probe is securely connected to the thermostat.
 - Check the cable for any visible damage. A damaged cable can lead to intermittent or incorrect readings.
 - Verify that the probe tip is clean and free from debris that might insulate it from the environment.
 - Test the probe with another compatible Inkbird thermostat if available, or test another probe with your current thermostat to isolate the issue.
- **Inaccurate Readings:**
 - Compare the probe's reading with a known accurate thermometer in the same environment.
 - If your thermostat supports calibration, perform a calibration as per its manual.
 - Ensure the probe is fully immersed or properly positioned in the area where temperature is being measured.
- **Probe Not Recognized:**
 - Confirm that the probe is compatible with your specific Inkbird thermostat model.
 - Disconnect and reconnect the probe.
 - Restart the thermostat.

If problems persist after attempting these steps, please contact Inkbird customer support for further assistance.

8. WARRANTY AND SUPPORT

Inkbird products are manufactured to high-quality standards. For warranty information and customer support, please refer to the documentation included with your Inkbird thermostat or visit the official Inkbird website.

For direct support, you may contact Inkbird Tech., the seller of this product, through their official channels.

Online Resources:

- [Visit the Inkbird Store on Amazon](#)