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Pro'sKit NT-312 Digital Temperature/Humidity Meter with Probe User Manual

Model: NT-312

Introduction Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

The Pro'sKit NT-312 Digital Temperature/Humidity Meter is designed for monitoring ambient temperature and humidity. It features a large, easy-to-read LCD display that integrates temperature, humidity, clock, alarm clock, and calendar functions. This device also includes a memory function for maximum and minimum temperature and humidity readings, and offers selectable Celsius/Fahrenheit and 12-hour/24-hour display systems. It can be used as a wall-mounted unit or with its desk-top stand, and operates with low power consumption.



Figure 1: Front view of the Pro'sKit NT-312 Digital Temperature/Humidity Meter, showing the large LCD display with temperature and humidity readings.

2. Setup

2.1 Unpacking

Carefully remove the NT-312 meter and its probe from the packaging. Ensure all components are present: the main meter unit and the external temperature/humidity probe.

2.2 Battery Installation

1. Locate the battery compartment cover on the back of the unit.
2. Slide or unclip the cover to open it.
3. Insert the required batteries (type not specified in provided data, typically AAA or AA) according to the polarity markings (+/-) inside the compartment.
4. Replace the battery compartment cover securely.

2.3 Probe Connection

Connect the external probe cable into the designated port on the side of the main meter unit. Ensure the connection is firm.



Figure 2: The external probe and its connecting cable. This probe is used for external temperature and humidity measurements.

2.4 Placement

The NT-312 can be placed on a desk using its integrated stand or mounted on a wall. Choose a location that provides accurate readings, away from direct sunlight, heat sources, or strong drafts.

3. Operation

3.1 Display Overview

The large LCD displays current temperature, humidity, and time. Indicators for MAX/MIN readings, Celsius/Fahrenheit, and 12/24-hour format will also be visible.

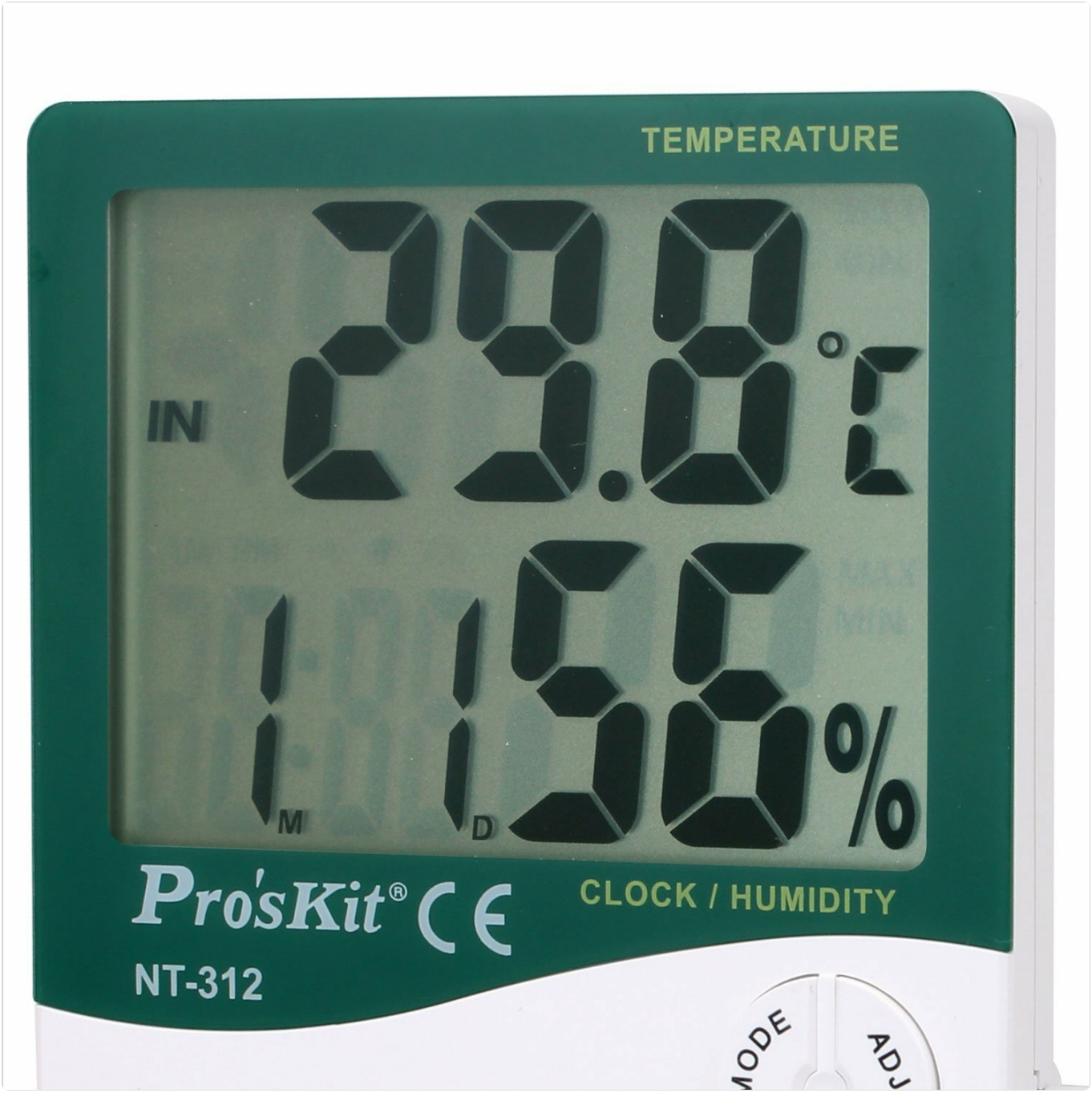

Figure 3: Close-up of the LCD display, highlighting temperature (top) and humidity (bottom) readings.

3.2 Button Functions



Figure 4: The control buttons located on the front of the unit: MODE, ADJ, and MEMORY.

- **MODE:** Press to cycle through display modes (e.g., time, alarm, calendar). Long press to enter setting mode for time, alarm, or calendar.
- **ADJ (Adjust):** Used to adjust values when in setting mode. Also used to switch between Celsius (°C) and Fahrenheit (°F) temperature units.
- **MEMORY:** Press to view maximum (MAX) and minimum (MIN) recorded temperature and humidity values. Long press to clear recorded MAX/MIN data.

3.3 Setting Time and Date

1. Press and hold the **MODE** button until the time display starts flashing.
2. Use the **ADJ** button to set the hour.
3. Press **MODE** again to move to minutes, then use **ADJ** to set.
4. Continue pressing **MODE** to cycle through year, month, and day settings, adjusting each with the **ADJ** button.
5. After setting all values, press **MODE** one last time to exit setting mode.

3.4 Switching Temperature Units (°C/°F)

In normal display mode, press the **ADJ** button to toggle between Celsius (°C) and Fahrenheit (°F).

3.5 Viewing and Clearing MAX/MIN Readings

- Press the **MEMORY** button once to display the maximum recorded temperature and humidity.
- Press **MEMORY** again to display the minimum recorded temperature and humidity.
- Press **MEMORY** a third time to return to current readings.
- To clear the MAX/MIN memory, press and hold the **MEMORY** button until the display resets.

4. Maintenance

4.1 Cleaning

Wipe the unit and probe with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in water. Keep the sensor area of the probe clean and free from dust or debris for accurate readings.

4.2 Battery Replacement

When the display becomes dim or the unit stops functioning, replace the batteries. Refer to section 2.2 for battery installation instructions. Dispose of old batteries responsibly.

5. Troubleshooting

- **No Display or Dim Display:**
  - Check battery installation. Ensure batteries are inserted with correct polarity.
  - Replace old batteries with new ones.
- **Incorrect Temperature/Humidity Readings:**
  - Ensure the external probe is securely connected.
  - Verify the probe is placed in the desired measurement area and not obstructed.
  - Note that the internal humidity sensor measures humidity inside the main unit's casing. For external humidity measurements, ensure the external probe is designed for and placed appropriately for humidity sensing.
  - Avoid placing the unit in direct sunlight, near heat sources, or in areas with extreme drafts.
- **Buttons Not Responding:**
  - Remove and reinsert batteries to perform a soft reset.

6. Specifications

Feature	Detail
Model	NT-312
Temperature Range	-10°C to +55°C (14°F to 130°F)
Temperature Accuracy	0.5 (unit typically °C or °F)
Display	Large LCD

Feature	Detail
Functions	Temperature, Humidity, Clock, Alarm Clock, Calendar, MAX/MIN Memory
Temperature Units	Celsius (°C) / Fahrenheit (°F) selectable
Time Display	12-hour / 24-hour selectable
Mounting Type	Wall Mount / Desk Stand
Included Components	Meter and probe

7. Warranty and Support

For warranty information and technical support, please contact the retailer or manufacturer directly. Keep your purchase receipt as proof of purchase. Specific warranty terms may vary by region and seller.

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