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De'Longhi DE250, DE350, DEC, DEC12, DEC14, DEC18, DEC21

De'Longhi Dehumidifier Sensor Probe Instruction Manual

For Models: DE250, DE350, DEC, DEC12, DEC14, DEC18, DEC21

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your new De'Longhi replacement sensor probe. This probe is compatible with various De'Longhi dehumidifier models, including DE250, DE350, DEC, DEC12, DEC14, DEC18, and DEC21. Please read these instructions carefully before proceeding with installation to ensure proper function and safety.

2. Safety Information

- Always disconnect the dehumidifier from the power supply before attempting any installation, maintenance, or repair.
- If you are unsure about any step, consult a qualified technician.
- Handle the sensor probe carefully to avoid damage to the delicate components.
- Ensure all connections are secure and correctly made before restoring power.

3. Product Overview

The sensor probe is a critical component of your De'Longhi dehumidifier, responsible for detecting humidity levels and temperature within the unit's operating environment. This information allows the dehumidifier to operate efficiently and maintain desired humidity settings. This replacement part is designed to meet the original specifications of your appliance.



Figure 1: De'Longhi Dehumidifier Sensor Probe. This image shows the sensor probe with its cable and connector, highlighting the metallic tip and the small white connector at the other end.



Figure 2: De'Longhi Dehumidifier Sensor Probe, angled view. This image provides an alternative perspective of the sensor probe, showing the full length of the cable and the small connector, with text markings visible on the cable insulation.

4. Setup and Installation

Replacing the sensor probe requires careful attention. Refer to your specific dehumidifier model's service manual for detailed disassembly and reassembly instructions. The following steps are general guidelines:

1. **Disconnect Power:** Unplug the dehumidifier from the electrical outlet.
2. **Access Panel Removal:** Locate and carefully remove the access panels or casing of your dehumidifier to expose

the internal components. This often involves unscrewing several fasteners.

3. **Locate Old Sensor:** Identify the existing sensor probe. It will typically be a small component with a wire leading to a connector on the main control board.
4. **Disconnect Old Sensor:** Gently disconnect the old sensor probe's connector from the control board. Note its routing and position.
5. **Remove Old Sensor:** Carefully remove the old sensor probe from its mounting clips or housing.
6. **Install New Sensor:** Insert the new sensor probe into the same mounting clips or housing, ensuring it is securely seated.
7. **Connect New Sensor:** Connect the new sensor probe's connector to the appropriate port on the control board. Ensure the connection is firm.
8. **Route Cable:** Route the sensor cable carefully, ensuring it does not interfere with moving parts or get pinched by the casing.
9. **Reassemble:** Reattach all access panels and casing components securely.
10. **Restore Power:** Plug the dehumidifier back into the electrical outlet.

5. Operating Principles

The sensor probe operates passively by measuring ambient humidity and temperature. It sends electrical signals corresponding to these measurements to the dehumidifier's control board. The control board then uses this data to activate or deactivate the compressor and fan, maintaining the desired humidity level set by the user. A properly functioning sensor is crucial for the dehumidifier's automatic operation and energy efficiency.

6. Maintenance

The sensor probe itself requires minimal maintenance. However, ensuring the area around it is clean can help maintain its accuracy.

- **Dust Removal:** Periodically, when performing general dehumidifier maintenance (e.g., cleaning air filters), gently wipe any dust or debris from the sensor probe using a soft, dry cloth.
- **Avoid Moisture:** Do not use liquid cleaners or excessive moisture directly on the sensor probe.
- **Inspect Connections:** During routine checks, ensure the sensor's electrical connection remains secure and free from corrosion.

7. Troubleshooting

If your dehumidifier is exhibiting unusual behavior related to humidity sensing, the sensor probe might be a factor. Common symptoms of a faulty sensor include:

- Dehumidifier runs continuously despite low humidity.
- Dehumidifier stops prematurely while humidity is still high.
- Inaccurate humidity readings displayed on the unit.
- Error codes related to humidity or temperature sensors (refer to your dehumidifier's main manual for specific codes).

If these issues persist after checking connections and cleaning, replacement of the sensor probe may be necessary.

8. Specifications

Product Type	Replacement Sensor Probe
Brand	De'Longhi
Compatible Models	DE250, DE350, DEC, DEC12, DEC14, DEC18, DEC21
Dimensions (L x W x H)	Approximately 9 x 0.5 x 12 cm (as per product listing for the part)
Weight	Approximately 20 g

9. Warranty and Support

Information regarding specific warranty coverage for this replacement part is not available in the product details. For warranty inquiries or technical support, please contact your original point of purchase or De'Longhi customer service directly. When contacting support, please have your dehumidifier's model number and serial number ready.

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