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LDGSUPH TMS710SA

LDGSUPH TMS710SA Central Air Conditioning Temperature Controller User Manual

1. Introduction

Thank you for choosing the LDGSUPH TMS710SA Central Air Conditioning Temperature Controller. This manual provides essential information for the safe and efficient operation of your new device. Please read this manual thoroughly before installation and use, and retain it for future reference. This controller is designed for use with Carrier TMS710SA Fan Coil Units, offering precise temperature management and fan speed control.

2. Safety Information

- **Professional Installation Recommended:** Installation of this device involves electrical wiring. It is strongly recommended that installation be performed by a qualified electrician or HVAC technician to ensure safety and proper functionality.
- **Power Disconnection:** Always disconnect power to the air conditioning unit at the main circuit breaker before performing any installation, wiring, or maintenance.
- **Voltage Compatibility:** Ensure the power supply voltage matches the requirements of the controller and the fan coil unit.
- **Avoid Moisture:** Do not expose the controller to water or excessive humidity.
- **Proper Wiring:** Follow all wiring diagrams and local electrical codes. Incorrect wiring can cause damage to the unit, fire, or electric shock.

3. Product Overview

The LDGSUPH TMS710SA is an advanced LCD three-speed switch control panel designed for central air conditioning fan coil units. It provides intuitive control over your indoor climate, allowing for precise temperature settings, mode selection, and fan speed adjustments. Its clear LCD display shows real-time operational status and settings.



Figure 3.1: Front view of the LDGSUPH TMS710SA Central Air Conditioning Temperature Controller. The display shows a temperature of 22.5°C, with icons for fan speed and mode. Control buttons are visible below the screen.



Figure 3.2: Angled view of the LDGSUPH TMS710SA Central Air Conditioning Temperature Controller. This perspective shows the depth of the unit and the arrangement of the LCD screen and physical buttons.

4. Setup

4.1 Installation

The LDGSUPH TMS710SA controller is designed for wall-mounted installation. Ensure the installation location is free from direct sunlight, drafts, or heat sources that could affect temperature readings. It should be mounted at a standard thermostat height (approximately 1.5 meters or 5 feet from the floor) in a central area of the room.

4.2 Wiring

WARNING: Disconnect all power before wiring.
The controller requires connection to the fan coil unit's power supply and control signals. Specific wiring diagrams are typically provided with the fan coil unit or by the installer. Generally, connections will include:

- Power input (Live and Neutral)
- Fan speed outputs (Low, Medium, High)
- Valve control outputs (Heating/Cooling)
- Ground connection

Ensure all connections are secure and insulated. After wiring, carefully mount the controller onto the wall plate.

5. Operating Instructions

The controller features an intuitive interface with an LCD display and several buttons for operation.

5.1 Display Interface

The LCD screen displays the current indoor temperature (RT), the set temperature, the current operating mode (e.g., snowflake for cooling, sun for heating), and the fan speed setting (e.g., AUTO, low, medium, high bars).

5.2 Basic Functions

- **Power Button (U):** Press to turn the unit ON or OFF.
- **Mode Selection Button (*):** Cycles through available operating modes such as Cooling, Heating, Fan Only, and potentially Dehumidification (depending on the fan coil unit's capabilities).
- **Fan Speed Button (S):** Adjusts the fan speed. Options typically include Low, Medium, High, and Auto. In Auto mode, the controller automatically adjusts fan speed based on the temperature difference.
- **Temperature Adjustment Buttons (^ / v):** Use the up and down arrows to increase or decrease the desired set temperature.

5.3 Advanced Functions

- **Timer Function:** Some models offer a timer function to program the unit to turn on or off at specific times. Refer to the specific model's detailed instructions for setting the timer.
- **Energy-Saving Mode:** If available, this mode optimizes the air conditioner's operation to reduce energy consumption. Activate it via the mode button or a dedicated button if present.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your temperature controller.

- **Cleaning:** Wipe the surface of the controller with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the display or casing.
- **Avoid Obstructions:** Ensure that the temperature sensor (usually located on the bottom or side of the unit) is not obstructed by furniture, curtains, or other objects, as this can lead to inaccurate temperature readings.
- **Periodic Checks:** Periodically check the wiring connections for any signs of loosening or damage. (Ensure power is disconnected before checking wiring).

7. Troubleshooting

If you encounter issues with your controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Controller display is blank	No power supply; loose wiring	Check the main circuit breaker. Verify wiring connections (ensure power is off).
Unit not responding to commands	Temporary software glitch; incorrect mode	Turn the controller off and then on again. Ensure the correct operating mode is selected.
Inaccurate temperature reading	Sensor obstruction; controller placed in an unsuitable location	Remove any obstructions near the sensor. Relocate the controller if it's in direct sunlight or a draft.
Fan not operating at selected speed	Incorrect fan speed setting; fan coil unit issue	Ensure the fan speed is not set to 'Auto' if you expect a constant speed. Check the fan coil unit for issues.

If the problem persists after attempting these solutions, please contact a qualified technician or the manufacturer's support.

8. Specifications

- **Brand:** LDGSUPH
- **Model:** TMS710SA
- **Compatibility:** Carrier TMS710SA Fan Coil Units
- **Display:** LCD
- **Control Type:** Three-speed Switch Control Panel
- **Item Weight:** 50 Grams
- **ASIN:** B0FYD9BQ9W

9. Warranty and Support

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer/seller directly. LDGSUPH is committed to providing quality products and support.
If you require technical assistance or have questions not covered in this manual, please contact the seller or manufacturer's customer support through the contact information provided with your purchase or on the official LDGSUPH website.

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