

Ranco K 59 L 1287

Ranco K 59 L 1287 Refrigerator Thermostat Instruction Manual

Model: K 59 L 1287 | Brand: Ranco

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of your Ranco K 59 L 1287 refrigerator thermostat. Please read this manual thoroughly before attempting any installation or operation to ensure proper function and safety.

The Ranco K 59 L 1287 is designed as an alternative replacement thermostat for various refrigerator and freezer models, particularly those with a 0* compartment or 1-star rating, and refrigerator-freezer combinations. It replaces thermostats such as the K59 H1300.

2. PRODUCT OVERVIEW

The Ranco K 59 L 1287 thermostat is a crucial component for regulating the temperature within your refrigeration appliance. It features a capillary tube for temperature sensing and specific contact configurations for electrical connections.

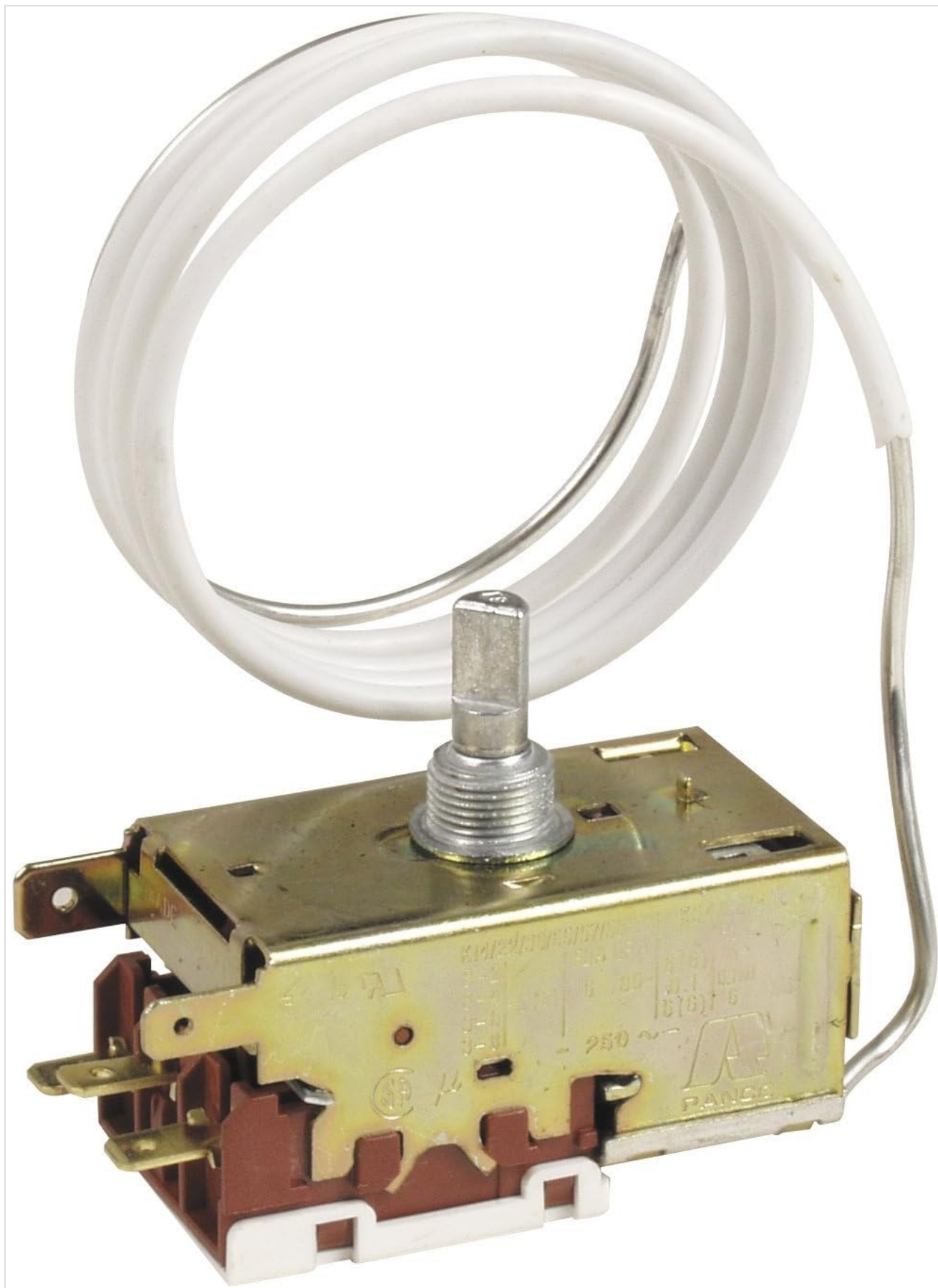


Figure 1: Overview of the Ranco K 59 L 1287 thermostat with its capillary tube.

Key Features:

- **Reference Spare Part:** RANCO K 59 L 1287.
- **Application:** Suitable for spacious 1-star refrigerators, refrigerator-freezer combinations, and freezers.
- **Contact Configuration:** Separate contacts for 4, 6, and 3.

- **Temperature Values:**
 - Continuous operation: +5 °C
 - Warm cut-in: -7 °C
 - Cold cut-in: -19 °C
- **Capillary Tube Length:** 900 mm, equipped with a protective hose.
- **Fittings:** Screw-type connections.



Figure 2: Close-up view of the thermostat showing the electrical connection terminals.

3. SPECIFICATIONS

Manufacturer	Ranco
Model Number	K 59 L 1287
Package Dimensions	9.5 x 7.4 x 5.4 cm
Weight	96 g
Country of Origin	Czech Republic
Special Features	High accuracy
Color	Yellow (housing)
Included Components	Screw (for mounting)
Exterior Material	Plastic
Display Type	Analog

Capillary Tube Length	900 mm
Temperature Range (Cut-in)	Warm: -7 °C / Cold: -19 °C
Continuous Operation	+5 °C

4. SETUP AND INSTALLATION

WARNING: Installation should only be performed by a qualified technician. Disconnect the appliance from the main power supply before beginning any installation or repair work to prevent electric shock.

Installation Steps:

- Safety First:** Ensure the refrigerator or freezer is unplugged from the wall outlet.
- Access the Old Thermostat:** Locate and carefully remove the old thermostat. This may involve removing control panels or access covers. Note the position and wiring of the old thermostat.
- Disconnect Wiring:** Carefully disconnect the electrical wires from the old thermostat. It is highly recommended to take photos or draw a diagram of the wiring connections before disconnecting.
- Remove Capillary Tube:** Gently pull out the capillary tube of the old thermostat from its housing or insulation. Be careful not to bend or damage the new capillary tube during installation.
- Install New Thermostat:**



Figure 3: The Ranco K 59 L 1287 thermostat showing the mounting nut and capillary tube coiled.

- Mount the new Ranco K 59 L 1287 thermostat in the same location as the old one, using the provided screw fittings.
 - Carefully insert the new capillary tube into the designated sensing area. Ensure it is not kinked or damaged. The protective hose on the capillary tube should remain intact.
6. **Connect Wiring:** Reconnect the electrical wires to the new thermostat according to your diagram or photos. Ensure all connections are secure. The contacts are typically labeled (e.g., 4, 6, 3).
 7. **Reassemble:** Replace any removed control panels or covers.
 8. **Test:** Plug the appliance back into the power outlet. Set the thermostat to a desired temperature and monitor the appliance's operation to ensure it cools correctly and cycles on/off as expected.

5. OPERATING INSTRUCTIONS

The Ranco K 59 L 1287 thermostat functions automatically to maintain the set temperature within your refrigerator or freezer. Once installed, its operation is typically controlled by the appliance's temperature dial or control knob.

Temperature Control:

- Adjust the temperature setting on your appliance's control panel to achieve the desired cooling level.
- The thermostat will automatically switch the compressor on when the temperature rises above the set point (warm cut-in: -7 °C) and switch it off when the temperature drops to the desired level (cold cut-in: -19 °C).
- For continuous operation, the thermostat is designed to maintain approximately +5 °C.
- Allow several hours for the appliance to reach the new temperature setting after adjustment.

Note: The specific temperature range and dial markings are dependent on your appliance's design. Refer to your appliance's user manual for precise temperature setting guidance.

6. MAINTENANCE

The Ranco K 59 L 1287 thermostat is designed for long-term, reliable operation and requires minimal maintenance.

General Care:

- **Cleaning:** If the thermostat housing becomes dusty or dirty, wipe it clean with a dry or slightly damp cloth. Ensure the appliance is unplugged before cleaning.
- **Inspection:** Periodically inspect the capillary tube for any signs of damage or kinks. Ensure it remains securely in its sensing location.
- **Electrical Connections:** If accessible, occasionally check the electrical connections to ensure they are tight and free from corrosion. Always disconnect power before inspecting electrical components.

Do not attempt to disassemble the thermostat. If you suspect a malfunction, refer to the troubleshooting section or consult a qualified technician.

7. TROUBLESHOOTING

If your appliance is not functioning correctly after thermostat installation, consider the following common issues:

- **Appliance Not Cooling:**
 - Check if the appliance is plugged in and receiving power.
 - Verify that the thermostat's wiring connections are correct and secure.
 - Ensure the capillary tube is properly positioned and not damaged.
 - The temperature setting might be too high. Adjust to a colder setting.
- **Appliance Overcooling / Freezing:**
 - The temperature setting might be too low. Adjust to a warmer setting.
 - The capillary tube might be dislodged or improperly sensing the temperature.
- **Compressor Runs Continuously:**
 - This could indicate the thermostat is not reaching its cut-off temperature, possibly due to improper capillary tube placement or a faulty thermostat.
 - Check for excessive frost buildup, which can affect temperature sensing.
- **Compressor Does Not Start:**
 - Verify power supply.
 - Check thermostat wiring.
 - The thermostat might be faulty and not signaling the compressor to start.

If these steps do not resolve the issue, it is recommended to contact a qualified appliance repair technician.

8. COMPATIBILITY

The Ranco K 59 L 1287 thermostat is designed as a compatible alternative for a wide range of refrigeration appliances. It directly replaces the K59 H1300 thermostat.

Known Compatible Manufacturers and Models (Partial List):

- **Electrolux Group:** AEG, Electrolux, Zanussi, Zanker, Juno. (e.g., replaces 125022473000 (KL3), 899671069599, 125022583300 (Class 3)).
- **Whirlpool Group:** Bauknecht, Ignis, Philips, Whirlpool. (e.g., replaces 481227128059).
- **Other Brands:**
 - Atea A13-0173
 - Danfoss 077 B 3224
 - Ranco H0104 A59, A59 H104 Rose
 - Quelle Privileg Matura (e.g., 01258938, K59H1300-001)
 - Liebherr (e.g., 6151039, 6151079, 6151086 (K59 L1287/000))
 - Miele (e.g., 1513060 (device K59H1300))

This list is not exhaustive. Always verify the model number of your existing thermostat against the Ranco K 59 L 1287 or consult your appliance's service manual for compatibility.

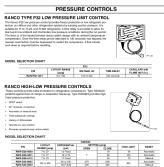


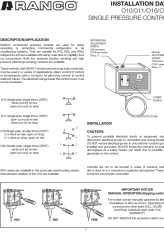
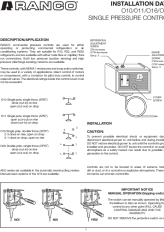
9. WARRANTY AND SUPPORT

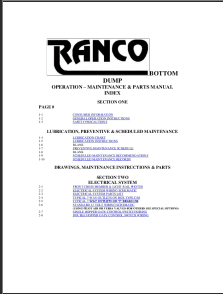
For warranty information, please refer to the terms and conditions provided by your retailer or the Ranco official website. Keep your proof of purchase for any warranty claims.

If you require technical assistance or have questions not covered in this manual, please contact the retailer where you purchased the product or visit the Ranco support website for further assistance.

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This manual is for informational purposes only. Ranco is not responsible for any damages or injuries resulting from improper installation or use of this product.

 <p>Comprehensive catalog of Ranco, Johnson Controls, and Danfoss temperature and pressure controls, including low pressure limit controls, high-low pressure controls, electronic controls, defrost controls, and accessories for refrigeration systems.</p>	<p>Ranco, Johnson Controls, and Danfoss Refrigeration Controls Catalog</p> <p>Comprehensive catalog of Ranco, Johnson Controls, and Danfoss temperature and pressure controls, including low pressure limit controls, high-low pressure controls, electronic controls, defrost controls, and accessories for refrigeration systems.</p>
 <p>Installation data, specifications, operation, and troubleshooting for the Ranco ETC Two Stage Electronic Temperature Control, NEMA Type 4X. This control is designed for commercial HVAC and refrigeration, offering dual-stage temperature control, LCD display, keypad programming, and a NEMA 4X watertight enclosure for outdoor use.</p>	<p>Ranco ETC Two Stage Electronic Temperature Control - NEMA Type 4X Installation Data</p> <p>Installation data, specifications, operation, and troubleshooting for the Ranco ETC Two Stage Electronic Temperature Control, NEMA Type 4X. This control is designed for commercial HVAC and refrigeration, offering dual-stage temperature control, LCD display, keypad programming, and a NEMA 4X watertight enclosure for outdoor use.</p>
 <p>Comprehensive installation, operation, and troubleshooting guide for the Ranco ETC Single Stage Electronic Temperature Control. Covers product details, applications, features, specifications, ordering, programming, lockout switch, wiring diagrams, and sensor information for HVAC and refrigeration systems.</p>	<p>Ranco ETC Single Stage Electronic Temperature Control Installation Instructions</p> <p>Comprehensive installation, operation, and troubleshooting guide for the Ranco ETC Single Stage Electronic Temperature Control. Covers product details, applications, features, specifications, ordering, programming, lockout switch, wiring diagrams, and sensor information for HVAC and refrigeration systems.</p>
 <p>Installation data for Ranco single pressure controls (O10, O11, O16, O20). Covers description, application, installation, wiring, and control settings for various refrigerants and pressure ranges.</p>	<p>Ranco Single Pressure Control Installation Data</p> <p>Installation data for Ranco single pressure controls (O10, O11, O16, O20). Covers description, application, installation, wiring, and control settings for various refrigerants and pressure ranges.</p>
 <p>Comprehensive installation data, wiring, settings, and specifications for Ranco O10, O11, O16, and O20 single pressure controls used in commercial refrigeration and air conditioning systems. Includes mounting instructions, capillary care, control wiring, adjustment procedures, and detailed specifications.</p>	<p>Ranco O10/O11/O16/O20 Single Pressure Control Installation Data</p> <p>Comprehensive installation data, wiring, settings, and specifications for Ranco O10, O11, O16, and O20 single pressure controls used in commercial refrigeration and air conditioning systems. Includes mounting instructions, capillary care, control wiring, adjustment procedures, and detailed specifications.</p>



Ranco Bottom Dump Trailer Operation, Maintenance & Parts Manual

Comprehensive guide for Ranco Bottom Dump Trailers covering operation, maintenance, parts, electrical, air brake, and suspension systems. Essential for proper use and upkeep.