

Lenz 202003

Lenz T-550-5 Hydraulic Tank Level Gauge with Temperature Display

User Manual

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Lenz T-550-5 Hydraulic Tank Level Gauge with Temperature Display. This industrial-grade instrument is designed to accurately monitor both fluid levels and temperatures in hydraulic systems, ensuring optimal performance and safety. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of the product.

2. SAFETY INFORMATION

Always adhere to standard safety practices when working with hydraulic systems and industrial equipment. Failure to do so may result in personal injury or damage to equipment.

- Ensure the hydraulic system is depressurized and cooled before attempting installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Verify that the gauge's specifications, particularly the maximum temperature rating (200°F), are suitable for your application.
- Handle the gauge with care, especially the glass viewing window, to prevent breakage.
- Dispose of old hydraulic fluid and components responsibly according to local regulations.

3. PRODUCT OVERVIEW

The Lenz T-550-5 is a robust 5-inch mounting hydraulic tank level gauge featuring an integrated temperature display. Constructed with a durable polyamide body and a clear glass viewing window, it provides reliable readings for critical hydraulic system parameters.

Key Features:

- **Dual Functionality:** Simultaneously displays hydraulic fluid level and temperature.
- **Durable Construction:** Made with industrial-grade polyamide and a glass viewing window for longevity and

chemical resistance.

- **Temperature Range:** Capable of measuring temperatures up to 200°F (93°C).
- **Clear Visibility:** Large, easy-to-read scale for both fluid level (HIGH/LOW) and temperature (Fahrenheit and Celsius).
- **Standard Mounting:** Designed for 5-inch center-to-center mounting, compatible with many hydraulic reservoirs.

Product Views:



Figure 3.1: Angled view of the Lenz T-550-5 gauge, showing the black housing, clear glass window with level markings (HIGH/LOW), and temperature scale (Fahrenheit and Celsius) with a red thermometer bulb. Two hexagonal mounting bolts are visible on either side.



Figure 3.2: Front view of the gauge, highlighting the central viewing window with "HIGH" and "LOW" indicators, and the temperature scale. The Lenz brand name is visible within the window. The two mounting bolts are prominent.

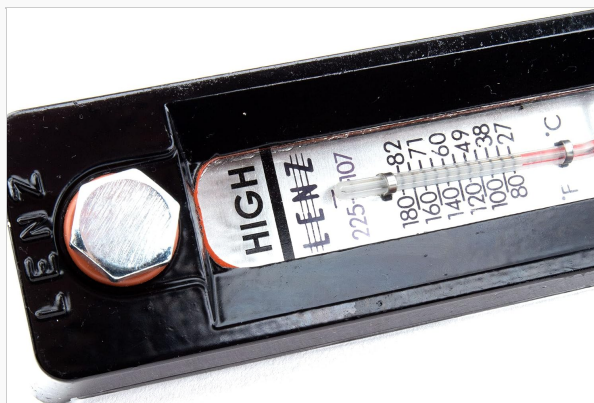


Figure 3.3: Detailed close-up of the gauge's display, showing the Fahrenheit and Celsius temperature scales, numerical markings (e.g., 80, 100, 120, 140, 160, 180, 225), and the red liquid thermometer. The "HIGH" and "LOW" level indicators are also clearly visible.



Figure 3.4: Rear view of the gauge, illustrating the two threaded mounting studs with hexagonal nuts and sealing washers, along with additional screws securing the backplate. This view highlights the robust construction and attachment points.

4. SETUP AND INSTALLATION

Proper installation is crucial for accurate readings and leak-free operation. The Lenz T-550-5 gauge is designed for straightforward mounting on hydraulic reservoirs.

Installation Steps:

1. **Prepare Mounting Surface:** Ensure the mounting surface on the hydraulic tank is clean, flat, and free from burrs or debris. The gauge requires two mounting holes spaced 5 inches (127 mm) center-to-center.
2. **Depressurize System:** Before installation, ensure the hydraulic system is completely depressurized and drained to a safe level, below the intended mounting position of the gauge.
3. **Position Gauge:** Carefully align the gauge's threaded mounting studs with the pre-drilled holes on the tank.
4. **Secure with Fasteners:** Use the provided or appropriate sealing washers and nuts to secure the gauge firmly to the tank. Tighten the nuts evenly to create a leak-proof seal, but do not overtighten, as this can damage the gauge or the tank.
5. **Verify Seal:** After installation and refilling the hydraulic system, visually inspect around the gauge for any signs of leaks.

It is recommended to consult a qualified technician for installation if you are unfamiliar with hydraulic system components.

5. OPERATING INSTRUCTIONS

The Lenz T-550-5 gauge provides continuous, real-time monitoring of your hydraulic fluid level and temperature.

Reading Fluid Level:

The fluid level is indicated by the visible line of hydraulic fluid within the clear glass viewing window. The gauge features "HIGH" and "LOW" markings to guide optimal fluid levels. Maintain the fluid level between these indicators for proper system operation and to prevent cavitation or overflow.

Reading Temperature:

The integrated thermometer displays the fluid temperature in both Fahrenheit (°F) and Celsius (°C). The red liquid column within the thermometer will rise or fall with temperature changes. Monitor the temperature to ensure it remains within the safe operating range for your hydraulic fluid and system components. The maximum recommended operating temperature for this gauge is 200°F (93°C).

6. MAINTENANCE

Regular maintenance ensures the accuracy and longevity of your Lenz T-550-5 gauge.

- **Cleaning:** Periodically clean the exterior of the gauge, especially the glass viewing window, with a soft, damp cloth to ensure clear visibility. Avoid abrasive cleaners or solvents that could damage the polyamide housing or markings.
- **Leak Inspection:** Regularly inspect the mounting area for any signs of hydraulic fluid leaks. Address any leaks immediately to prevent system contamination or fluid loss.
- **Visual Inspection:** Check the gauge for any physical damage, such as cracks in the housing or glass, or fading of the markings. If significant damage is observed, the gauge should be replaced.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your hydraulic tank level gauge.

Problem	Possible Cause	Solution
Fluid level not visible or inaccurate.	Fluid level too low or too high. Gauge obscured by dirt/debris. Internal blockage (rare).	Adjust hydraulic fluid level to within HIGH/LOW marks. Clean the viewing window. Inspect for internal issues (may require professional service).
Temperature reading appears incorrect.	Gauge not fully immersed in fluid. External heat source affecting gauge. Thermometer damage.	Ensure proper fluid level. Relocate gauge if possible, or shield from external heat. Replace gauge if thermometer is damaged.
Leakage around the gauge.	Improperly tightened mounting nuts. Damaged sealing washers. Cracked gauge housing.	Carefully re-tighten mounting nuts. Replace sealing washers. Replace the entire gauge.

If you encounter issues not listed here or if troubleshooting steps do not resolve the problem, contact a qualified hydraulic technician or the manufacturer for assistance.

8. SPECIFICATIONS

Attribute	Detail
Brand	Lenz
Model Number	202003 (T-550-5)
Material	Polyamide (Housing), Glass (Viewing Window)
Screen Size / Mounting Center	5 Inches (127 mm)
Item Dimensions (L x W x H)	6 x 6 x 6 inches (approximate, as per product data)
Item Weight	2 Pounds (0.91 kg)

Attribute	Detail
Temperature Display Range	Up to 200°F (93°C)
UPC	615986038451

9. WARRANTY INFORMATION

Lenz products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact Lenz customer support directly. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, replacement parts, or any inquiries regarding your Lenz T-550-5 Hydraulic Tank Level Gauge, please contact Lenz customer support. Contact information can typically be found on the manufacturer's official website or on the product packaging.

