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› [Stahlwille](#) /

› Stahlwille Sensotork 7707N-3W Workshop Torque Tester User Manual

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Model: 7707N-3W

INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of the Stahlwille Sensotork 7707N-3W Workshop Torque Tester. This electronic workshop torque tester is designed for precise measurement and calibration of torque wrenches, offering high accuracy and safety through its advanced display and transducer technology. Please read this manual thoroughly before using the device to ensure safe and efficient operation.

PRODUCT OVERVIEW

The Stahlwille Sensotork 7707N-3W is a robust and accurate torque testing device. It features a digital display unit connected to a main testing block with various drive adapters. The system is designed for easy adaptation by replacing transducers, ensuring high accuracy by converting and digitizing readings directly within the transducer.



Figure 1: Stahlwille Sensotork 7707N-3W Workshop Torque Tester. The image displays the main testing unit, a grey rectangular base with multiple square drive openings for different adapters. A digital display unit is connected via a coiled cable, showing "Track 0.00 Nm" on its screen. The display unit has buttons labeled "Mode", "Tare", "Clear", "Off", "On", and "Unit". The base unit also shows "Stahlwille Sensotork 7707-3W" and "Stahlwille Sensotork 7723-3" markings.

1. **Unpacking:** Carefully remove the torque tester and all accessories from its packaging. Inspect for any signs of damage during transit.
2. **Placement:** Place the main testing unit on a stable, flat, and level surface, such as a workbench. Ensure adequate space for operation and access to power if applicable (though this model appears battery-operated or self-contained).
3. **Connect Display Unit:** Connect the coiled cable from the digital display unit to the appropriate port on the main testing unit. Ensure the connection is secure.
4. **Transducer Installation:** The unit comes with integrated transducers. If replacing or installing a specific transducer (e.g., Sensotork 7723-3), ensure it is correctly seated in the designated slot on the main testing unit.
5. **Power On:** Press the "On" button on the digital display unit to power on the device. The display should illuminate and show "0.00 Nm" or a similar initial reading.

OPERATING INSTRUCTIONS

Basic Operation

1. Power On/Off:

- Press "**On**" to turn the device on.
- Press "**Off**" to turn the device off.

2. Unit Selection:

- Press the "**Unit**" button to cycle through available torque units (e.g., Nm, ft.lb). The selected unit will be displayed on the screen.

3. Mode Selection:

- Press the "**Mode**" button to switch between different measurement modes, such as "Track" (real-time display of torque) or "Peak" (holds the maximum torque value achieved). The current mode is indicated on the display.

4. Tare Function:

- Press the "**Tare**" button to zero the current reading. This is useful for eliminating the weight of adapters or setting a reference point.

5. Clear Function:

- Press the "**Clear**" button to clear the displayed reading, especially in Peak mode, to prepare for a new measurement.

Performing a Torque Measurement

1. Ensure the correct drive adapter (e.g., 3/4" drive) is selected or installed on the main testing unit.
2. Select the desired unit of measurement using the "Unit" button.
3. Select the desired measurement mode (e.g., "Track" for continuous reading or "Peak" for maximum value capture) using the "Mode" button.
4. Place the torque wrench to be tested onto the appropriate drive adapter of the Sensotork unit.
5. Apply torque to the wrench as you normally would during its operation. Observe the digital display for the real-time torque value or the peak value.
6. For clicking torque wrenches, the display will show the actual torque read-off at the point of click, providing a high degree of safety and accuracy.
7. Record the measurement as needed.

MAINTENANCE

- **Cleaning:** Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the display unit or the main testing unit.
- **Storage:** Store the torque tester in a clean, dry environment, away from extreme temperatures, humidity, and direct sunlight. It is recommended to store it in its original case if available.
- **Calibration:** To maintain accuracy, regular calibration by an authorized Stahlwille service center is recommended. The frequency of calibration depends on usage and environmental conditions, but typically annually for professional tools.
- **Battery Replacement:** If the display unit shows a low battery indicator or fails to power on, replace the batteries according to the instructions provided in the full product manual (not detailed here as battery type/location is not specified in input).

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--|--|---|
| Device does not power on. | Low or dead batteries. Loose cable connection. | Replace batteries. Check and secure the coiled cable connection between the display and main unit. |
| Inaccurate readings. | Unit needs calibration. Incorrect unit selected. Tare not performed. | Contact Stahlwille service for calibration. Verify the correct unit (Nm, ft.lb) is selected. Press "Tare" before measurement. |
| Display shows "Error" or unusual characters. | Internal malfunction. Overload. | Turn the unit off and then on again. Avoid exceeding the maximum capacity (1100 Nm). If the error persists, contact customer support. |

SPECIFICATIONS

| Feature | Detail |
|--------------|---------------------------|
| Model Number | 7707N-3W |
| Capacity | 25–1100 Nm (18–812 ft.lb) |
| Drive Size | 3/4" Drive |
| Item Weight | 0.01 ounces |
| Width | 180mm |
| Head Style | Fixed Square |
| Finish Type | Powder Coated |
| Manufacturer | Stahlwille |

WARRANTY AND SUPPORT

Stahlwille products are manufactured to high-quality standards. For specific warranty information regarding your Sensotork 7707N-3W, please refer to the warranty card included with your product or visit the official Stahlwille website. In case of technical issues, repair, or calibration services, please contact Stahlwille customer support or an authorized service center.

For the most up-to-date support information, please visit the official Stahlwille website or consult your local distributor.

