

Wiha 28824200

Wiha 2882 TorqueVario-S ESD 0.5-2.0 Nm Size 2 Instruction Manual

Precision Torque Screwdriver for ESD-Sensitive Applications

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1. INTRODUCTION

This instruction manual provides essential information for the safe and effective use of your Wiha 2882 TorqueVario-S ESD torque screwdriver, model 0.5-2.0 Nm Size 2. This precision tool is designed for controlled tightening of fasteners in applications where electrostatic discharge (ESD) protection is critical, ensuring consistent torque values and preventing damage to sensitive electronic components.

Please read this manual thoroughly before operating the tool and retain it for future reference.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) when working with tools.
- Ensure the tool is clean and in good working condition before each use.
- Do not exceed the specified torque range of 0.5-2.0 Nm. Over-tightening can damage the tool or the workpiece.
- This tool is ESD-safe. Maintain proper ESD grounding practices in your workspace to ensure effective protection.
- Do not use the tool for prying, chiseling, or other unintended applications.
- Store the tool in a dry, clean environment, away from extreme temperatures and corrosive substances.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The Wiha TorqueVario-S ESD screwdriver is a precision instrument designed for accurate torque application. It features an ergonomic handle for comfortable use and a clear scale for setting the desired torque value.



Figure 1: Wiha TorqueVario-S ESD Screwdriver. This image displays the Wiha TorqueVario-S ESD screwdriver. It features an ergonomic yellow handle with the Wiha logo and a black shaft. The shaft indicates a torque range, which for this model is adjustable within 0.5-2.0 Nm.

Components:

- **Ergonomic Handle:** Designed for comfortable grip and efficient torque transfer.
- **Torque Adjustment Scale:** Clearly marked scale for precise torque setting.
- **Bit Holder:** Securely holds interchangeable screwdriver bits.
- **ESD-Safe Material:** Ensures protection against electrostatic discharge.

4. SETUP

1. **Select the Correct Bit:** Choose the appropriate screwdriver bit for your fastener. Ensure it is clean and free from damage.
2. **Insert the Bit:** Insert the selected bit firmly into the bit holder of the torque screwdriver until it clicks into place.
3. **Set the Torque Value:**
 - Locate the torque adjustment ring on the handle.
 - Rotate the adjustment ring to align the desired torque value (in Nm) with the indicator mark on the handle.
 - Ensure the setting is locked if your model features a locking mechanism. Refer to the markings on your specific tool for precise adjustment instructions.
4. **Verify Setting:** Double-check that the torque value is correctly set before proceeding.

5. OPERATING INSTRUCTIONS

1. **Prepare Workpiece:** Ensure the fastener and workpiece are clean and properly aligned.
2. **Apply Tool:** Place the screwdriver bit onto the head of the fastener, ensuring a secure fit.
3. **Tighten Fastener:** Apply steady, even pressure and rotate the screwdriver clockwise to tighten the fastener.
4. **Listen for Click:** Continue tightening until you hear and feel a distinct "click." This indicates that the preset torque value has been reached.
5. **Stop Turning:** Immediately stop turning the screwdriver once the click is detected. Further turning will not increase torque and may damage the fastener or tool.
6. **Remove Tool:** Remove the screwdriver from the fastener.

Important: For consistent accuracy, always apply torque smoothly and avoid sudden jerks. After use, it is recommended to reset the torque setting to its lowest value to relieve spring tension and prolong the tool's calibration accuracy.

6. MAINTENANCE

- **Cleaning:** Wipe the tool with a clean, dry, lint-free cloth after each use. Do not use solvents or abrasive cleaners, as these may

damage the ESD properties or markings.

- **Storage:** Store the torque screwdriver in its original packaging or a protective case in a dry, temperature-controlled environment. Reset the torque setting to the lowest value before storage.
- **Calibration:** Torque tools require periodic calibration to maintain accuracy. The frequency of calibration depends on usage intensity. Consult Wiha's recommendations or a certified calibration service.
- **Inspection:** Regularly inspect the tool for any signs of wear, damage, or loose components. Do not use a damaged tool.

7. TROUBLESHOOTING

Issue: Torque click not felt or heard.

- **Possible Cause:** Torque setting too low or too high for the application.
- **Solution:** Verify the required torque for the fastener and adjust the tool accordingly.
- **Possible Cause:** Tool not applied correctly or insufficient pressure.
- **Solution:** Ensure the bit is fully engaged with the fastener and apply steady, axial pressure.
- **Possible Cause:** Tool requires calibration or is damaged.
- **Solution:** If issues persist, consider professional calibration or contact Wiha support.

Issue: Fastener still loose after click.

- **Possible Cause:** Incorrect torque setting.
- **Solution:** Re-check the required torque and adjust the tool.
- **Possible Cause:** Worn or incorrect bit.
- **Solution:** Replace the bit with a new, correct size bit.
- **Possible Cause:** Damaged fastener threads.
- **Solution:** Inspect the fastener and replace if damaged.

8. SPECIFICATIONS

Feature	Detail
Brand	Wiha
Model Number	28824200
Torque Range	0.5 - 2.0 N m
Size	Size 2
Material	Plastic (Handle)
Special Feature	ESD-Safe, Ergonomic
Item Weight	0.19 Kilograms (6.7 ounces)
Product Dimensions	0.39 x 0.39 x 0.39 inches (approximate)
Measurement System	Metric

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service, please contact Wiha customer service directly or visit their official website. Keep your purchase receipt as proof of purchase.

Wiha Official Website: www.wiha.com

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