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› ATsafepro Digital Torque Adapter 1/2" 17-340 Nm User Manual

ATsafepro ATJ18340N-EU

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Model: ATJ18340N-EU

1. INTRODUCTION

The ATsafepro Digital Torque Adapter transforms any standard ratchet wrench into a precise digital torque wrench. Designed for accuracy and ease of use, this adapter provides reliable torque measurements for a wide range of applications, including automotive, motorcycle, and bicycle maintenance.

What's Included

- 1 × 1/2" Digital Torque Adapter (17-340 Nm / 12.5-250.7 ft-lb)
- 1 × 3/8" Adapter
- 1 × 1/4" Adapter
- 1 × Screwdriver



Figure 1: Complete kit contents including the digital torque adapter and various drive adapters.

2. KEY FEATURES

- **Dual Direction Torque Measurement:** Measures torque with $\pm 2\%$ accuracy in both clockwise and counter-clockwise directions.
- **Multi-Unit Conversion:** Supports 5 units: Newton-meters (Nm), foot-pounds (ft-lb), inch-pounds (in-lb), kilogram-centimeters (kg-cm), and kilogram-meters (kg-m).
- **Dual Alarm System:** Features a beep and LED flash to warn when the target torque is approached, preventing overtightening.
- **2 Display Modes:** Offers Peak mode for maximum torque achieved and Track mode for real-time torque display.
- **Preset and Data Storage:** Allows pre-setting 9 torque values (P1-P9) and storing up to 500 torque values for later review.



Figure 2: Overview of the digital torque adapter's display and control buttons.



Figure 3: Display modes (Track and Peak) and supported torque units.

3. SETUP INSTRUCTIONS

Battery Installation

The digital torque adapter requires batteries for operation. Locate the battery compartment, typically on the back or side of the unit. Insert the required batteries (usually AAA, refer to the compartment label if unsure) ensuring correct polarity. Close the battery compartment securely.

Attaching the Adapter to a Ratchet Wrench

The ATsafePro Digital Torque Adapter is designed to be used with a standard ratchet wrench. It features a 1/2" drive. If your ratchet wrench has a different drive size, use the included 3/8" or 1/4" adapters.

1. Select the appropriate adapter (1/2", 3/8", or 1/4") for your ratchet wrench.
2. Insert the adapter into the square drive of your ratchet wrench.
3. Attach the ATsafePro Digital Torque Adapter to the selected adapter or directly to the 1/2" drive of your ratchet wrench. Ensure it is securely seated.
4. Attach the socket or bit required for your task to the output square drive of the digital torque adapter.



Figure 4: How to connect the digital torque adapter to a ratchet wrench using various adapters.

4. OPERATING THE DIGITAL TORQUE ADAPTER

Basic Operation

- **Power On/Off:** Briefly press the **C** button to turn the unit on. Long press the **C** button to turn it off.
- **Mode Selection:** Press the **P/T** button to switch between **Peak** mode (displays the maximum torque applied) and **Track** mode (displays real-time torque).
- **Unit Conversion:** Press the **U** button to cycle through the available torque units: Nm, ft-lb, in-lb, kg-cm, and kg-m.

Setting Target Torque (Preset Values P1-P9)

The adapter allows you to pre-set up to 9 target torque values for repetitive tasks.

1. Press the **M** button to enter the preset setting mode.
2. Use the **▲** (Up) and **▼** (Down) buttons to select a preset slot (P1-P9).
3. Press the **M** button again to confirm the selected slot.
4. Use the **▲** and **▼** buttons to adjust the target torque value.
5. Press the **M** button once more to save the set value.

Torque Measurement and Alarm System

When applying torque, the adapter provides visual and audible alerts as you approach your target torque value.

- At **80%** of the target torque, a green LED will light up, accompanied by an intermittent beep.
- At **90%** of the target torque, a yellow LED will light up, accompanied by an intermittent beep.
- At **100%** of the target torque, a red LED will light up, accompanied by a constant beep.

This dual alarm system helps prevent overtightening and ensures precise application of torque.



Figure 5: Digital torque adapter measuring torque on a wheel.

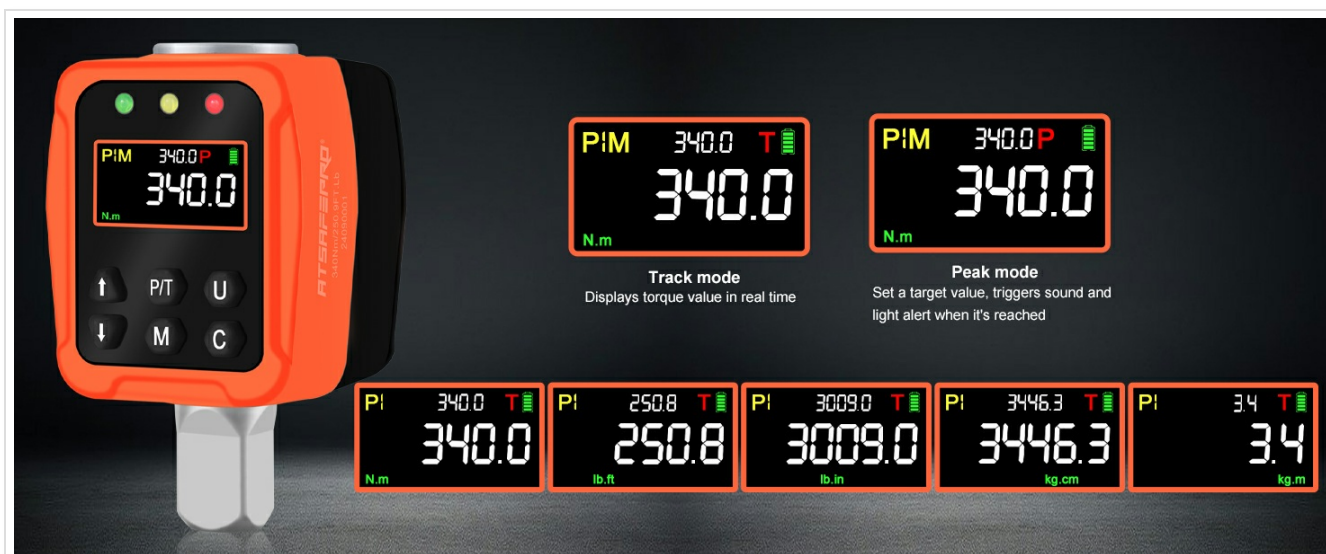


Figure 6: Visual and audible alarm indicators for target torque.

5. MAINTENANCE

Cleaning

To ensure the longevity and accuracy of your digital torque adapter, keep it clean. Wipe the unit with a soft, dry cloth after each use. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the display or housing.

Storage

Store the adapter in its protective case when not in use. Keep it in a dry environment, away from direct sunlight, extreme temperatures, and high humidity. Remove batteries if the unit will not be used for an extended period to prevent leakage.

Battery Replacement

When the battery level indicator shows low power, replace the batteries promptly. Always use new batteries of the specified type and ensure correct polarity during installation.

6. TROUBLESHOOTING

Common Issues

- **Unit does not power on:**
 - Check if batteries are installed correctly with proper polarity.
 - Replace with fresh batteries.
 - Ensure the power button (C) is pressed briefly to turn on.
- **Inaccurate readings:**
 - Ensure the adapter is securely attached to the ratchet wrench and the socket.
 - Verify that the correct unit of measurement is selected.
 - Avoid applying force unevenly or at an angle.
 - The adapter is factory calibrated. If persistent inaccuracy is suspected, contact customer support.
- **Display issues (e.g., blank, flickering):**
 - Check battery level and replace if low.
 - Ensure the unit is not exposed to extreme temperatures.

7. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	ATJ18340N-EU
Torque Range	17-340 Nm (12.5-250.7 ft-lb)
Accuracy	±2% (clockwise and counter-clockwise)
Drive Size	1/2 inch (with 1/4 inch and 3/8 inch adapters)
Units of Measurement	Nm, ft-lb, in-lb, kg-cm, kg-m
Data Storage	Up to 500 torque values
Preset Torque Values	9 (P1-P9)
Material	Alloy Steel
Package Dimensions	12.2 x 9.1 x 6.9 cm
Item Weight	450 grams
Country of Origin	China

8. WARRANTY AND CUSTOMER SUPPORT

For warranty information, please refer to the documentation included with your purchase or contact the seller directly. If you encounter any issues or have questions regarding the ATsafeepro Digital Torque Adapter, please reach out to ATsafeepro customer support through the retailer where the product was purchased.

