Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Square Drive</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAU-252</td>
<td>2.5-25.00 ft-lb</td>
<td>3/8 inch</td>
<td>0.6 pound</td>
</tr>
<tr>
<td>TAU-502</td>
<td>5-50.00 ft-lb</td>
<td>3/8 inch</td>
<td>0.6 pound</td>
</tr>
<tr>
<td>TAU-1002</td>
<td>10-100.0 ft-lb</td>
<td>3/8 inch</td>
<td>0.6 pound</td>
</tr>
<tr>
<td>TAU-1503</td>
<td>10-150.0 ft-lb</td>
<td>1/2 inch</td>
<td>0.8 pound</td>
</tr>
<tr>
<td>TAU-2503</td>
<td>25-250.0 ft-lb</td>
<td>1/2 inch</td>
<td>0.8 pound</td>
</tr>
</tbody>
</table>

Display: 5-digit, alpha-numeric LCD with function and battery indicator icons.

Accuracy: Torque: Within ±1% of Indicated Value of both CW and CCW directions (10%-100% of F.S)
Angle: Within ±1° when rotating to 90° at the speed rate @ 2°/s to 400°/s

Resolution:

<table>
<thead>
<tr>
<th>Model</th>
<th>Drive</th>
<th>ft-lb</th>
<th>in-lb</th>
<th>Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAU-252</td>
<td>3/8 inch</td>
<td>0.02 ft-lb</td>
<td>0.2 in-lb</td>
<td>0.05 Nm</td>
</tr>
<tr>
<td>TAU-502</td>
<td>3/8 inch</td>
<td>0.05 ft-lb</td>
<td>0.5 in-lb</td>
<td>0.1 Nm</td>
</tr>
<tr>
<td>TAU-1002</td>
<td>3/8 inch</td>
<td>0.1 ft-lb</td>
<td>0.2 in-lb</td>
<td>0.2 Nm</td>
</tr>
<tr>
<td>TAU-1503</td>
<td>1/2 inch</td>
<td>0.2 ft-lb</td>
<td>0.3 in-lb</td>
<td>0.3 Nm</td>
</tr>
<tr>
<td>TAU-2503</td>
<td>1/2 inch</td>
<td>0.3 ft-lb</td>
<td>0.6 in-lb</td>
<td>0.6 Nm</td>
</tr>
</tbody>
</table>

Units of measure: ft-lb, in-lb, Nm
Modes of measure: Torque, Angle
Measurement Modes:

ANGLE- Displays applied torque and angle for 15 seconds.

TORQUE - Displays torque value in real time when torque is loading and shows peak torque when torque is released.

Visual, Audible Alerts:

Yellow LED and buzzer pulse at 80% - 96% of target torque. Pulse rate increases as target torque is being approached.

Green LED and buzzer alerts continuously when applied torque is within 96% - 104% of target torque.

Red LED and buzzer on continuously when applied torque exceeds >104% target torque or wrench full-scale.

Tactile Vibration when applied torque is within ±4% tolerance of the target.

Temperature Drift: ±0.0015%/F
Storage Temperature 0°F to 125°F
Operating Temperature 40°F to 110°F
Humidity - up to 90% non-condensing

Battery Power:
Uses 3 AAA batteries up to 200 hours of operation

Certification:
Digitool Solutions provides a 1 year warranty that covers any Digital Torque & Angle Meter which fails to give satisfactory service due to defective workmanship or materials (excluding calibration) for 12 months from the date of original purchase. Calibration is only covered by this warranty for each new unused Torque & Angle Meter out of box. Products must be returned with proof of purchase—freight prepaid—to the warranty service center listed below.

This warranty excludes Torque & Angle Meters which have been subjected to abnormal use, accidental damage, neglect, or lack of maintenance. Any modification or disassembly of this Torque & Angle Meter, or repair by an unauthorized service center will void the warranty. This warranty gives you specific rights. You may also have other rights which vary from state to state. The foregoing obligation is Digitool Solutions sole liability under this or any implied warranty; and under no circumstances shall Digitool Solutions be liable for any incidental or consequential damages.

For Warranty Service and Recalibration/Certification Services, contact:

Digitool Solutions LLC.
13905 Ramona Ave. Unit #A
Chino, CA 91710
Phone: (909)591-9581
Fax (909) 233-6491

USB TORQUE & ANGLE METER
For Models TAU-252, TAU-502, TAU-1002, TAU-1503, TAU-2503

Accuracy:
Torque ±1% CW & CCW of 10%-100% of Full scale
Angle ±1° of 90° rotation @ speed rate 2°/s - 400°/s

Data record: Up to 360 Data recorded Torque and Angle values

Battery:
Up to 200 hours operation

Display:
5-digit, alpha-numeric LCD with function and battery indicator icons.

Power off:
Auto shut off after 2 minutes idle

维护和校准服务:
此设备在工厂校准并通过国际标准认证（ISO-6789-2003和ASME B107-28-2005标准）。其性能从0%到100%与满量程完全一致。

维护:
清洁时，请使用轻度湿润的布料。请勿使用溶剂、稀释剂或发动机清洁剂。在任何液体中使用。

电池:
使用3节AAA电池，操作时间为200小时。

保修与校准服务:
Digitool Solutions提供1年保修服务，该服务适用于任何因工作不规范或材料缺陷而无法正常工作的数字扭矩和角度测量仪。保修期从购买日起12个月内。

保修除外:
本保修不适用于异常使用、意外损坏、疏忽或缺乏维护。任何改动或拆卸本扭矩和角度测量仪，或未经授权服务中心的维修，将使保修失效。本保修仅在本保修单据中明确规定。

保修限制:
此保修单据不包括因异常使用、意外损坏、疏忽或维护不足而造成的任何偶然或可预见的损失。

保修范围:
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保修不符合:
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本保修单据自购买之日起12个月内。

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Important Safety Instructions

- **WARNING** - Risk of flying particles.
- Read this entire User’s Guide before using the Torque and Angle meter. Always follow good professional tool practices.
- **Wear Safety goggles.**
- Ensure that all equipment is in good working order and that ratings of the Torque Meter, tools and devices exceed the torque being applied.
- Never use the Torque and Angle Meter with the power off.
- Never initiate ZeroTare with torque applied.
- Save these instructions.

Introduction

TAU series is

The DTS Torque and Angle Meter USB provides Torque accuracy within ±1% of reading between 10% and 100% of full scale; Angle accuracy ±1° of 90° rotation @ speeds between 2°/s to 400°/s. It is rugged enough to accept the output torque of non-impacting; power tools, nut-runners or robotic spindles.

It may be used as an adaptor between any square drive hand tool, such as a ratchet wrench or breaker bar, and common fastener drive sockets.

Because the Torque and Angle Meter is entirely self-contained, there is no wrap up of interconnecting cables during use.

The display is user selectable for ft-lb, in-lb or Nm units of measurement.

How to transfer data to PC (via Microsoft Excel, Word, …)

1. After collecting data (Maximum data stored is 360)
2. Connect the Micro USB cable to TAU unit
3. Connect the USB to PC
4. Run the program DTS_USB.EXE, which is found on the included CD
5. Make sure the Connection Status Box is Green
6. Open Microsoft Excel program
7. Move the cursor to any cell to receive the data.

**NOTE:** Moving the cursor to a different document will cause the data to begin appearing on the new document.

1. Press U on TAU unit to transfer all data to the PC.

Front Panel Display and Keypad

Keypad Functions:

**Power ON - M key**

- **U** - Unit Select - ft-lb, in-lb or Nm
- **M** - Mode Select - TORQUE, ANGLE & PRINT (via USB)
- **U** - Increase TARGET TORQUE / ANGLE value (Push and Hold the key for rapid scrolling)
- **M** - Decrease TARGET TORQUE value (Push and Hold the key for rapid scrolling)

**Power OFF is automatic after 2 minutes of being idle**

Operator Instructions

1. **Setup:**
   a. **Power ON** the Torque & Angle Meter by pushing the M key.
   b. **Power OFF** Push and Hold the M key for more than 3 seconds to power down.

   In Torque Mode:
   1. – Clear Torque Display (Push the U key)
   2. – Zero torque (Push and Hold the U key for 3 Sec.)

   In Angle Mode:
   1. – Print torque and angle value to PC (Push the U key when device display "PRINT")
   2. – Zero Angle (Push and Hold the U key for 3 Sec.)

   Make sure the device stays on flat surface and is stationary.

2. **Setup:**
   a. With the power on, install the Torque and Angle Meter by pushing the M key.
   b. Apply torque load to the fastener in either CW or CCW directions. During loading, the Torque and Angle Meter will display applied torque in real time.
   c. When the applied torque is within 4% of the TARGET TORQUE value in PEAK modes, the green LED, buzzer and vibrator (optional) will alert continuously. Stop applying torque, as the installation is complete.