

# Torque Tool User Manual



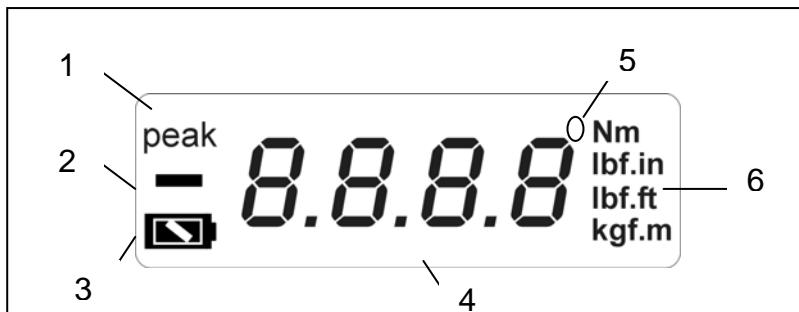
## IMPORTANT:

Please read this instruction thoroughly and carefully before operation. This instruction will provide you important information regarding the operation, and warnings, and safety cautions.

## Specifications

Model No.:	T-00
Drive:	1/2" square drive (12,5 mm)
Measuring Range:	20 - 200N.m / 10- 135N.m / 30 – 340n.m
Resolution:	0.1 N.m / 1lbf.in / 0.1lbf.ft / 0.1kgf.m
Accuracy:	±2% (C.W. / C.C.W. of reading, 10% to 100% of full scale.)
Angle Range:	5° - 360° (C.W. / C.C.W.)
Angle Accuracy:	±1% of reading ±1°
Angle Velocity:	> 10° / Sec < 360° / Sec
Display Resolution:	1°
Operating voltage:	6V (4 x AAA batteries, supplied)
Ambient temperature:	0° - 40° C
Units of measurement:	Nm – lbf.in – lbf.ft – kgf.m
Radio Frequency Range	:2.4GHZ

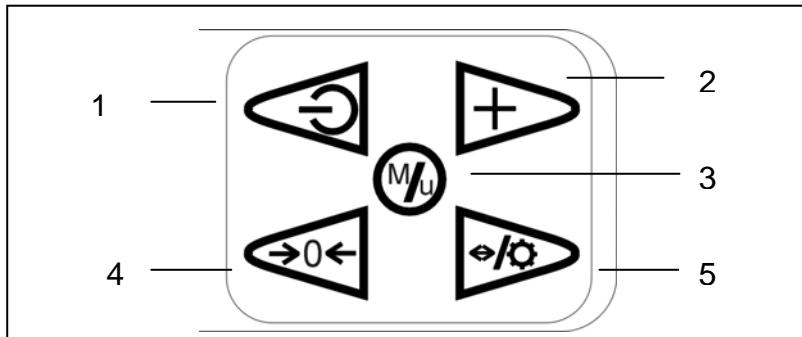
## Display



1. In "peak mode", the real-time torque reached during operation will be displayed and the maximum value is saved.
2. When loosening bolts (anti-clockwise rotation), a MINUS symbol will appear in front of the displayed value.
3. Shows the battery condition.
4. Four-digit digital Torque or Angle display.
5. The unit of Angle.
6. Torque units.



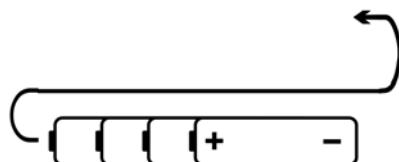
## Control panel



1. Power ON / OFF button
2. Button for into torque or angle setting mode programming / increasing the setting values.
3. Switch for display mode ( Peak or Track ) / press and hold button for 2 seconds for selecting units switch. / Under setting mode, press button to memorize the torque or angle setting value.
4. Button for pre-set torque and angle values to "0".
5. Switch into Torque or Angle measurement mode / Press button for 5 Sec. to display illumination / Under setting mode, the button is for selecting the next digit / Under Angle measuring mode, the button is for decrease the value to program pre-set torque.

## Preparation for use :

- Open the cover of the battery compartment by turning it count-clockwise.
- Insert four AAA batteries as shown below :



- Close the battery compartment by turning the cover clockwise.
- The torque wrench is now ready for use.

## Turning the tool on / off :

- Press  button to turn on. The buzzer sounds and on the display you can see all readouts at the same time for just a moment.
- After 2-3 seconds, only the battery symbol, the value "0.0" and the units of measurement last selected are displayed.
- Press  button again in order to turn off the electronic system.

## Energy savings function

The torque wrench will be turn off automatically without any buttons touching, or inactivity over 4mins.

## Changing the unit of measurement

1. Press and hold  button for 4 seconds for selecting units between N.m / lbf.ft / lbf.in / kgf.m.
2. The units of measurements on the right margin of the display will be selected in sequence (from up to down).
3. When the desired unit of measurement is displayed, release the  button.

## Programming the Torque and Angle

1. Press  button to switch into Torque or Angle measuring mode.
2. In order to access the torque / angle setting mode press the  button for 2 seconds.
3. (a) In **TORQUE setting mode**: At first, " SET " is shown on the display for approx. three seconds. After that, the display skips to the last saved torque or " 0000 ". The first digit of this value ( " 0000 " ) is flashing. Press the  button to zero the last saved value. Or by repeatedly pressing the "  " button, the value of the flashing digit is gradually increased. When the desired value for this digit was achieved, press the  button in order to skip to the next digit. Repeat this process for all digits. (ones, tens, hundreds etc.)

- (b) In **ANGLE setting mode** : At first, " SET " is shown on the display for approx. three seconds. After that, the display skips to the last saved angle or " 0° ".



Press the  button to zero the last saved value. Or by repeatedly pressing the “” button, the value of the flashing digit is gradually increased. Or by repeatedly pressing the “” button, the value of the flashing digit is gradually decreased.

4. When the required torque / angle value is set, press the  button in order to save this pre-set value.
5. Make sure that the highest permissible value is not exceeded! (See "Specifications")
6. After approx. 2-3 seconds the display will show " 0.0 " or "0° "

 **Caution:**

**“Erro” will be shown during on the screen, when the pre-set torque did not exceed the minimal torque of 10% FS or the pre-set angle did not exceed 5°. After 1 second, the wrench will quite and enters to torque or angle measuring mode. The pre-set is fail, and the warning indication will not work.**

#### **Activating the "peak mode"**

1. After turning on the display, the torque wrench is in " **Track** " mode, i.e. the real-time torque reached during operation will be displayed. During the " **Peak** " mode, the maximum value reached will be saved additionally and displayed permanently.
2. After the programming and saving of the torque has been completed, press the  button. On the left upper side of the display, "peak" is shown

#### **Turning the display illumination on/off**

1. The display illumination can be turned on prior to or after programming the torque.
2. In order to do this, press and hold the  button for 5 Sec.

## **Operating the torque wrench**

1. Select the wrench insert required for your work.
2. Attach the insert firmly to the square drive of the torque wrench, until it is kept in place by the ball stop of the square drive.
3. If possible, do not use any extensions because they may distort the torque applied to a bolt.
4. Place the tool on the bolt or nut.
5. Grip the torque wrench handle and pull on the wrench with quick movements. Avoid jerky movements.
6. When you approach the programmed torque value (+/- 5 Nm), the buzzer will sound.
7. When you approach the programmed value (+/- 2 Nm), the buzzer will emit a quicker sound sequence.
7. When the programmed torque has been achieved, the buzzer will emit a continuous tone and the display illumination will come on. (When the torque wrench is operated with the display illumination on, the latter will turn off when the programmed value is achieved.)

**ATTENTION: When you hear the continuous tone, immediately stop pulling, especially in case the target torque is low!**



**Caution:**

**NEVER USE THE TORQUE WRENCH WHEN THE WRENCH IS IN LOW BATTERY CONDITION. THE WRENCH ACCURACY WILL BE AFFECTED.**



## WARNING FOR USE AND CARE

1. For accuracy, please do not exceed the permitted maximum torque value for this meter.
2. Periodic re-calibration is necessary to maintain accuracy.
3. Clean with a soft dry cloth only. Do not use solvents, thinners or carburetor cleaners.
4. Keep the torque wrench dry. Water or other liquid will damage the electronic components inside.
5. Keep away from the main center of strong disturbance, strong magnetic field and strong corrosive gas or liquid.
  
6. Do not drop or throw this meter. Avoid exquisite bump or shock the torque wrench.
7. Do not leave this meter in any place exposed to excessive heat, humidity, or direct sunlight.
8. Do not expose this meter to dust or sand as this could cause serious damage.
9. Do not press, pressure, or damage the LCD display.
  
10. To avoid damaging the torque wrench, NEVER apply force to the meter when the power is off. Always turn this torque wrench on before using it.
  
11. Do not press  button to turn off the meter while torque force is applied.
  
12. If the tool is not used for a longer period of time, remove the batteries in order to prevent damage from leaking.
13. Do not combine used batteries with new ones or mix battery types.
14. Please dispose of battery in a disposal area. Do not throw battery into a fire.

### FCC NOTE:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.