

Operating Instructions and Warranty

Digital Torque Screwdriver

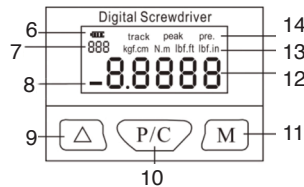
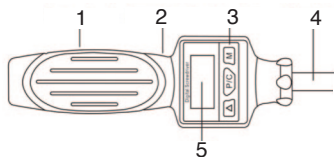
1. Overview

Digital torque screwdriver is a product which designed for the assembly carefully and testing of torque about fasteners in precision manufacturing industry, which is widely used in instruments, household appliances, mechanical and electrical equipment, automobile and motorcycle industry. It is a necessary high-grade tool to ensure the accurate fastening connection of small torque and small torque of bolts and nuts. Compared with the mechanical preset screwdriver, the torque control is more accurate.

2. Functions and features

- Digital display backlight, easy to read data clearly.
- Automatic shutdown after 1 minute of no operation.
- Clockwise and counterclockwise bidirectional operation.
- Three working modes of real time, peak value and preset value can be switched freely.
- Four torque unit options (N.m, lbf.ft, lbf.in, kgf.cm). Data can be stored (max. 99).
- Torque direction mark and battery power display.

3. Functions, names of each part and display



- | | |
|----------------------|-----------------------------------|
| 1. Battery (rear) | 9. UP Button |
| 2. Buzzer | 10. P/C button |
| 3. Buttons | 11. M button |
| 4. Connection sleeve | 12. Torque value |
| 5. LCD-Display | 13. Unit (Nm, inlb, ftlb, kgf.cm) |
| 6. Battery state | 14. Work mode: P (peak), |
| 7. Data stored | T (real time), PRE (Preset) |
| 8. Torque direction | |

4. Product technical specifications

| Model | 0.5 | 2 | 4 | 8 |
|------------------------------|---|---------|---------|---------|
| Minimum Graduation Value | 0,0001 | 0,001 | 0,01 | 0,01 |
| Maximum Operating Range (Nm) | 0.1 - 0.5 | 0.4 - 2 | 0.8 - 4 | 1.6 - 8 |
| Adpter / Connector | 1/4" (inner hexagon) | | | |
| Accuracy *1 | ± 2% (both direction) | | | |
| Operating mode | Peak (P) / Real time (T) / Preset (PRE) | | | |
| Unit | Nm, in.lb, ft.lb, kgf.cm | | | |
| Battery | 2 x AA Battery | | | |
| Working Temperatur | 0° - 60°C | | | |
| Storage Temperatur | - 20° - 60° | | | |
| Operating humidity | < 90% | | | |

5. Operating instructions

5.1 Power on/off

Tap the P/C button to turn the screwdriver on or off. If the battery is low, it will shut down automatically; if the screwdriver is not operated for 1 minute, it will shut down automatically to save battery consumption.

5.2 Working mode setting

In the measurement interface, press the M button lightly to select the working mode, "track" is the real-time mode, "Pre." is the preset mode, and "peak" is the peak mode.

A. Real-time mode (track)

In the real-time mode, the LCD screen displays the word track to realize real-time tracking of the torque value. In the real-time mode, the LCD screen displays the real-time load torque value.

B. Preset mode

For the torque driver in the working interface, press the Δ button lightly to display the preset value, press the Δ button again to set the preset value, when the preset value is adjusted to the required value, press the M button to save and exit. When locking in the preset mode, when the locking torque reaches 80% of the preset value, the buzzer starts to alarm. When you need to save the data, press the M button lightly to save the data. At this time, the character "5ucc" will appear on the display, indicating that the torque value has been saved successfully.

Tip: The buzzer will respond only when the buzzer function is turned on.

C. Peak mode

The force applied by the screwdriver will increase from the minimum measured value gradually. When the force is applied continuously, the on-screen torque value will always display the maximum torque value when the user applies a different magnitude of force. After the user unloads the force, the on-screen display will record and lock the maximum torque value during the force application process, which is the peak torque, and this value will be flashing. Press the P/C button to clear the peak torque. Maybe, if the measurement is performed again, the user can reload the applied force directly to update the locked peak torque without clearing and resetting. When the data need to be saved, press the M button lightly to save the data. At this time, the "Sure" character will appear on the display, indicating that the torque value has been saved successfully.

When tightening in this mode, when the tightening torque reaches 80% of the preset value, the buzzer will alarm.

Tip: The buzzer will respond only when the buzzer function is turned on.

5.3 Torque unit switching

In the measurement interface, long press the M button to enter the menu program, press the M button lightly to switch to the UNIT option, and then press the Δ button lightly to select different torque units freely. After finishing the selection, press the P/C button lightly to save and exit. (As shown)

5.4 LCD backlight function

In the measurement interface, long press the M button to enter the menu program, press the M button lightly to switch to the LTON option, and then press the Δ button lightly to choose to turn on or off the backlight. Character 1 means that the backlight is turned on, and character 0 means that the backlight is turned off.

After selecting, tap the P/C button to save and exit. (Only when a torque value is applied, the backlight will light up along with it) (As shown)

5.5 Data storage, viewing and deletion

In the measurement interface, once the torque value is generated, you can save the current torque value by pressing the M button lightly. At this time, the character "succ" will appear on the display, indicating that the torque value has been saved successfully. The three digits in the upper left corner of the display screen will display the current amount of data saved in real time.

Long press the M button to enter the menu program, then press the M button lightly to select the stored data group, and all data can be viewed by pressing the Δ button lightly. When you need to delete the stored data here, you need to tap the M button again to switch to the JELA option, and then tap the Δ button to select whether to delete all the stored data. Character 1 means deleting data, character 0 means not deleting data. After selecting, tap the P/C button to save and exit. (As shown)

By observing the three digits in the upper left corner of the LCD display, you can understand the status of data storage clearly.

5.6 Buzzer settings

In the measurement interface, long press the M button to enter the menu program, then press the M button lightly to switch to the BUZZ option, and then press the Δ button lightly to choose to turn on or off the buzzer. The character 1 represents on, and the character 0 represents off. After selecting, tap the P/C button to save and exit. (As shown)

5.7 Restore factory settings

When the user data settings are chaotic, you can use Restore factory settings, and all the parameters of the torque driver will be restored to the factory settings.

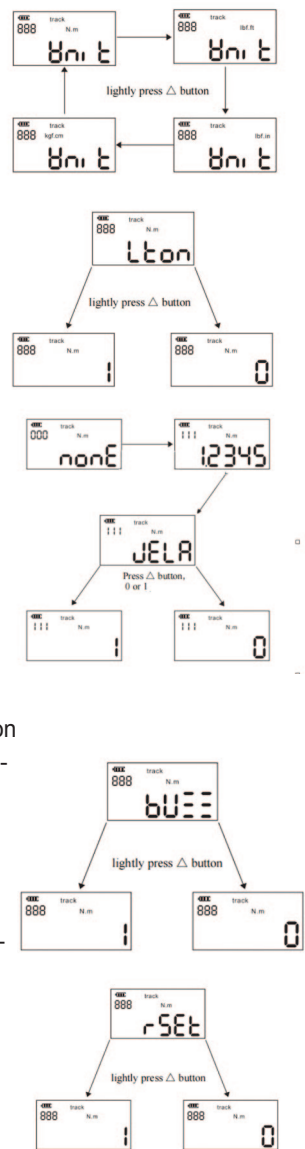
Long press the M button to enter the menu program, then press the M button lightly to switch to the RSET option, and then press the Δ button lightly to select whether to restore the factory settings. The character 1 represents the restoration of factory settings. After selecting, press the M button lightly to restore to the factory settings and return to the measurement interface. character 0. The representative does not need to restore, and can exit the menu program by pressing the P/C button lightly.

(As shown)

Notice:

A. Put 2 pcs AAA batteries into the battery box, please pay attention to the direction of the positive and negative poles.

B. When the working force value exceeds 120% of the full scale, the instrument will report an error. At this time, press the P/C button lightly to clear the force value and return to the measurement interface.



6. Repair and maintenance

In order to ensure the accuracy of the product, the product should be checked regularly to ensure its normal use.

- Verification requirements:
Determine the verification period according to the frequency of use of the product.
- Verification cycle:
The verification period is 12 months generally, and the verification period of used products is 6 months frequently.
Bolts and nuts tightened at important positions should be verified before each use to ensure their accuracy.
- Verification qualification:
The verification personnel should be manufacturers or qualified metering personnel, and the verification equipment should be a verification instrument with a system error of less than or equal to 0.3%.
- Do not use as a hammer during use, try to avoid knocks and drops.
- It is prohibited to use 20% overload strictly to avoid damage to the sensor of the product.
- It is forbidden strictly to disassemble the product at will. If any problems are encountered, please contact our company in time.
- After using the product, it should be placed in the packaging box.

7. Warranty

We guarantee the high precision of our products. Our accurate control service warrants high accuracy according to international standard. If in exceptional case, your measuring tool does not work correctly or is damaged within the warranty period please to not hesitate to return back together with the warranty certificate.

