

# **T-type digital torque screwdriver**

## **operation instruction**

### **1 Summary**

#### **1.1 Main uses and scope of application**

T-type digital torque screwdriver is a carefully designed product for the assembly and torque detection of small torque fasteners in precision manufacturing industry. It is widely used in instruments, household appliances, electromechanical equipment, automobiles and motorcycles, and is an essential high-end tool to ensure the precise fastening connection of bolts and nuts with small torque and small torque. Compared with the mechanical preset screwdriver, the torque control is more accurate.

### **2 Functional characteristics**

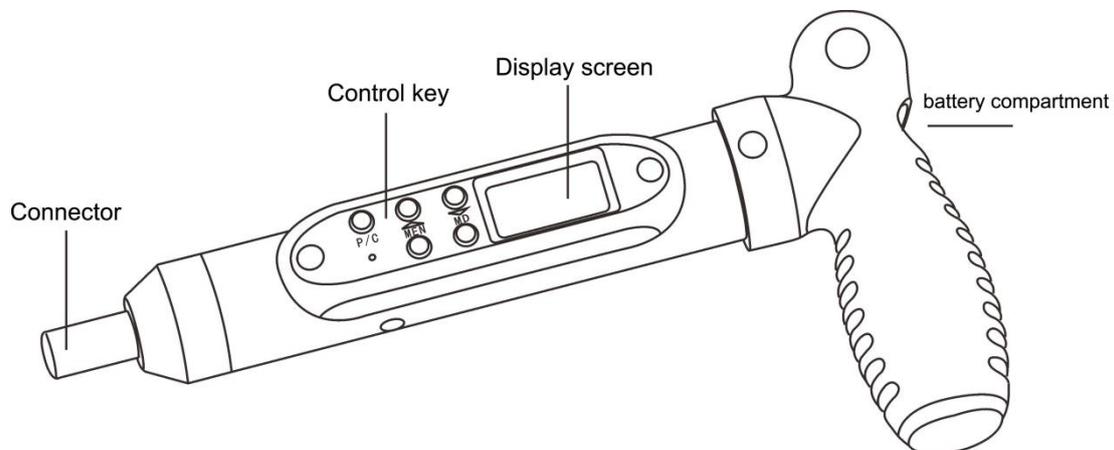
- 2.1 Digital display torque value.
- 2.2 Automatic shutdown without operation for 3 minutes, saving power.
- 2.3 Clockwise and counterclockwise bidirectional operation.
- 2.4 Switching operation modes: real-time mode and peak mode.
- 2.5 Four torque units can be selected: N.m, kgf.cm, lbf.ft and lbf.in
- 2.6 Preset target value alarm function.

### **3 Specifications and models**

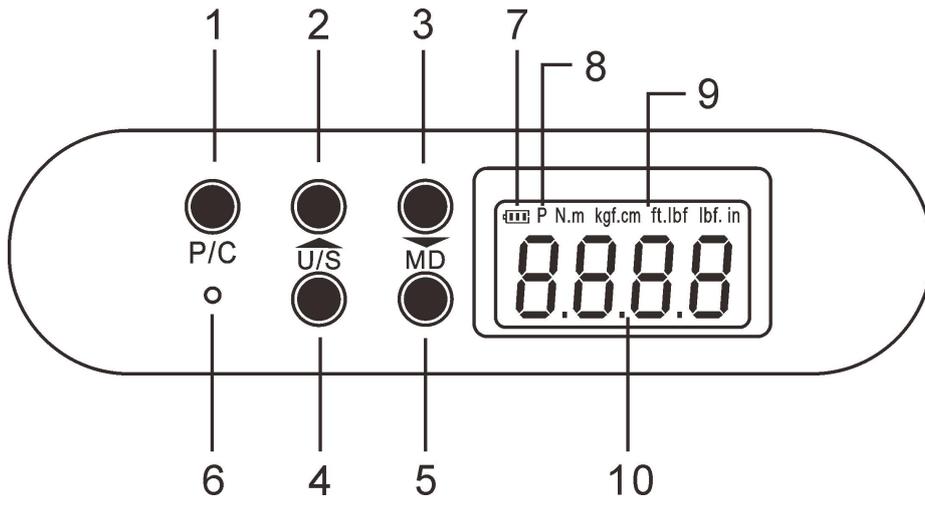
Measuring range	ANST-1	ANST-2	ANST-4	ANST-8	ANST-10
Precision	Clockwise 2%, counterclockwise 2.5%				
Dividing value	0.001				0.1
Indication range	0.03~1	0.06~2	0.12~4	0.24~8	0.3-10
Alarm range	0.03~1	0.06~2	0.12~4	0.24~8	0.3-10
Longitude range	20-100%				
Connecting head size	6.35"				
Work pattern	P(Peak)/T(Trace)				
Torque unit	kgf.cm、N.m、lbf.ft、lbf.in				
L*W*H(mm)	195*100*30				
Instrument weight (kg)	0.23				
Packing size(mm)	220*123*43				
Product weight (kg)	0.55				
Battery	2 No.7 batteries				
Button	5				
Usage temperature	-0°C~40°C				
Use humidity	Humidity ≤85%				
Automatic shutdown time	180S				

## 4 Product mix

### 2.1 Schematic diagram of appearance



### 2.2 Control display schematic diagram



Number	Name
1	On/off/Feset
2	Increase preset value
3	Reduce the preset value
4	Unit switching
5	Working mode switching
6	Buzzing alarm sound hole
7	Electric quantity display
8	Working mode display
9	Unit display
10	Torsion value display

## 5 Instructions

### 5.1 ON/OFF

Press the "P/C" key to turn on the machine, and press and hold the "P/C" key to turn off the machine. If the power is insufficient, it will automatically shut down; If the tool does not operate for 3 minutes, it will automatically shut down to save battery consumption.

### 5.2 Working mode switching

Press the "MD" key to switch the working mode. When the P letter appears on the display screen, it is the peak mode, and when the P letter does not appear on the display screen, it is the real-time mode.

#### 5.2.1 Real-Time mode

Real-time measurement mode: when the force is loaded, the current torque value is dynamically displayed on the screen. The torque value increases with the increase of the loaded force and decreases with the decrease of the loaded force. When the wrench is completely released, the torque value returns to 0.0.

#### 5.2.2 Peak mode

In the process of continuous force application, the screen shows that the torque value is the maximum torque currently applied, and the maximum torque value in the process of locking force application after unloading is the peak torque, and this value will be in a flashing state. Press the "P/C" key to clear the peak torque. Or, if it is necessary to measure again, the user can directly load the force again to update the locked peak torque without resetting.

### 5.3 Preset alarm function

Press the  $\wedge$  or  $\vee$  key to preset the alarm value, and then press the "U/S" key to save and return to the measurement interface. When the torque value reaches 80% of the preset alarm target value in the working process, the buzzer will make intermittent sound. When the torque value continues to increase to 100% of the preset alarm target value, the buzzer sounds long.

**This function is only available in peak mode. (Buzzer must be on)**

### 5.4 Work unit switching

Press the "U/S" key to switch between the four required units.

### 5.5 Buzzer setting

Press the "U/S" key for a long time to enter the menu. The program is displayed as BUZZ option, and then press the "∇" key lightly to select to turn the buzzer on or off.

The number 1 means on, the number 0 means off, and finally press the "P/C" key to exit the menu program.

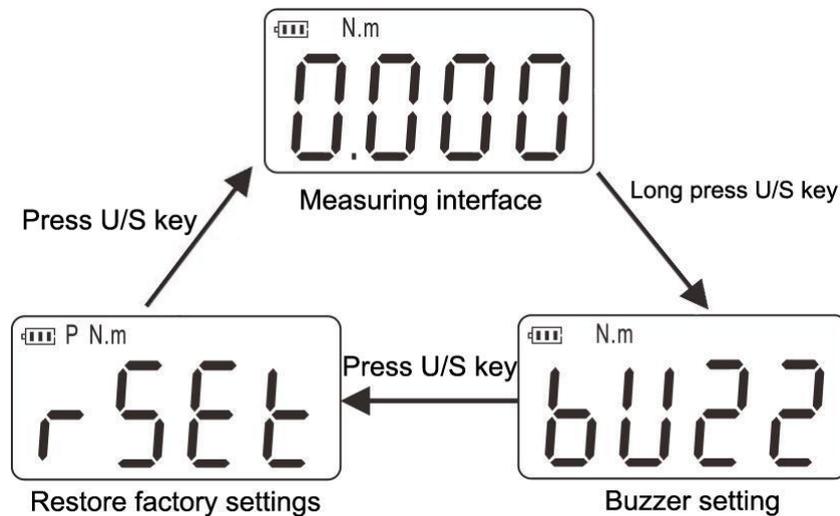
### 5.6 Restore factory settings

Press and hold the "U/S" key to enter the menu program, then press the "U/S" key to switch to the RSET option, and then press the "∇" key to select whether to restore the factory settings. The number 0 means not to restore, and the number 1 means to restore the factory settings. After selection, the tool will automatically return to the work interface, that is, it has been restored to the factory settings.

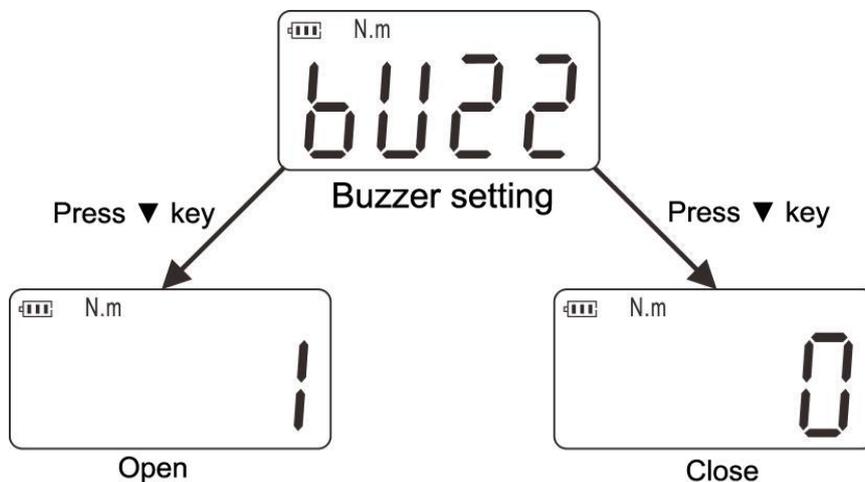
**Note: Put 2 No.7 batteries into the battery box, please pay attention to the positive and negative directions.**

### 5.7 Schematic diagram of menu interface

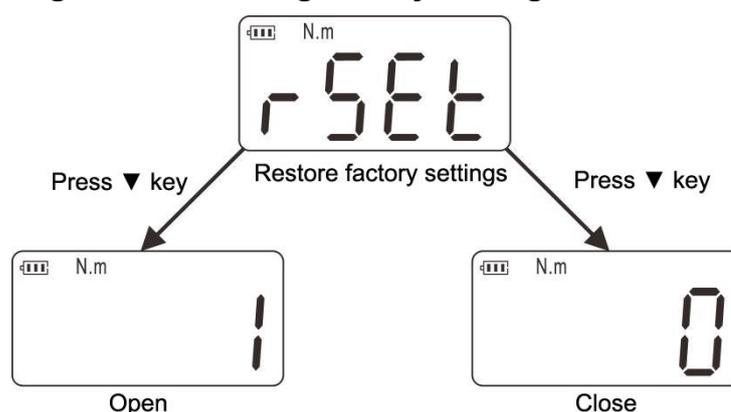
#### 5.7.1 Menu settings



#### 5.7.2 Schematic diagram of buzzer setting



### 5.7.3 Schematic diagram of restoring factory settings



## 6 Repair and maintenance

In order to ensure the accuracy of products, products should be tested regularly to ensure their normal use.

### 6.1 Calibration requirements:

According to the use frequency of the product, the calibration period is determined.

### 6.2 Calibration period:

The calibration period is generally 12 months, and in the case of frequent use, the calibration period is 6 months. Bolts and nuts fastened in important positions should be calibrated before each use to ensure their accuracy.

### 6.3 Calibration qualification:

Calibrators are manufacturers or metrological personnel with professional qualifications, and calibration equipment is a calibrator with system error less than or equal to 0.3%.

**6.4 In use, do not use the product as a hammer, and try to avoid bumping and falling.**

**6.5 It is forbidden to use it when it is overloaded by 20%, so as not to damage the sensor of the product.**

**6.6 It is strictly forbidden to disassemble the product at will. Please contact our company in time if you encounter any problems.**

**6.7 After using the product, it should be put in the box.**

## 7 Random attachment

Number	Name	quantity
1	T-type digital torque screwdriver	1
2	Instructions	1
3	Certificate/Warranty card	1
4	Desiccant	1
5	No.7 dry battery	2
6	Battery cover key	1
7	Measuring head	10

