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**IST-TT SERIES
DIGITAL TORQUE TESTER
OPERATION MANUAL**



2. The “Peak hold” mode recorded value review also can be operated in “Track” mode operation.
3. Communication mode is for uploading recorded data to PC.

8 Setting tolerance

- ◆ Long press **M** key after turn on the instrument, the screen start flickering.
- ◆ Select the preset value number by press up and down keys, press **US** key enter next setting item.
- ◆ Set the measuring mode, unit, preset value, up and down limit percentages, press up and down keys to adjust, press the **US** key enter next setting item.

Measured value is within the percentage range of target: Judge OK!

Setting range can be within +25.0% ~ -25.0%, ± 00.0% means no judgement.

Judgement function is only effective in P / 1P mode.

Communication

1 Connecting communication cable

Turn off power and then connect the accessory cable between the COM port of PC and torque tester.

2 Uploading record date

- ◆ Make sure the connection between PC and tester is normal.
- ◆ Change the tester operation mode to “**Send**”. (Please refer to “**Peak Hold Mode Recorded Value Review**” section)
- ◆ Use PC to start the uploader program.
- ◆ In uploader program, first select the correct COM port No.
- ◆ Next, select the file path to save the uploaded data.
- ◆ Finally, press “upload” button to transmit the torque records to PC.
- ◆ The uploaded date is then shown on the column and saved in the *.csv file. Use Microsoft Excel to view *.csv file.

Attention

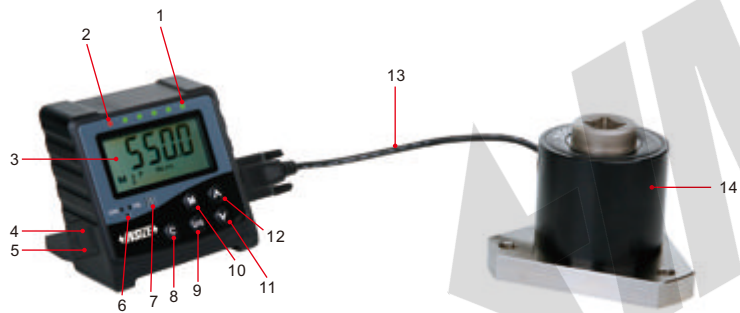
- ◆ Over-torque (110% of Max. torque range) could cause breakage or lose accuracy.
- ◆ Keep work area clean.
- ◆ Do not use the torque transducer with impact or impulse tools.
- ◆ Ensure that components are properly connected before using torque tester.
- ◆ Do not apply excessive force to the LCD panel.
- ◆ Do not use organic solvents, such as alcohol or paint thinner when cleaning the torque tester.
- ◆ Do not use unpermitted sockets or accessories.
- ◆ Do not attempt to disassemble or repair the torque tester. It may damage torque tester.
- ◆ Do not permit unauthorized personnel to operate the torque tester.
- ◆ Wear proper clothing to avoid loose articles being caught in moving parts.
- ◆ When not in use, torque tester should be stored in proper place.
- ◆ Do not handle the power plug with wet hands. Avoid causing an electric shock.

Product introduction

1 Main features

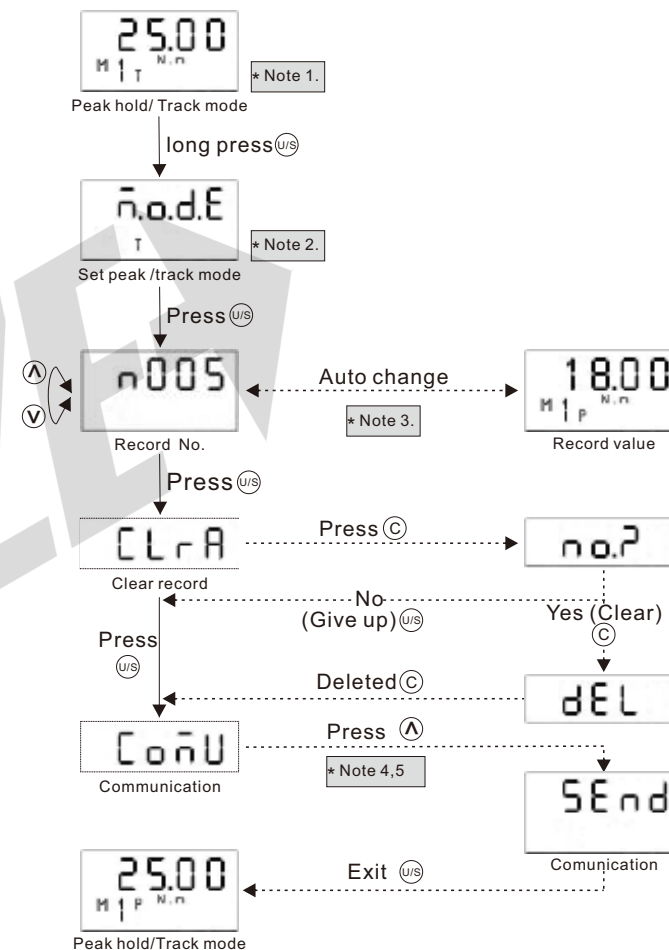
- ◆ With external sensor, to test torque wrenches, torque screwdrivers and other torque tools
- ◆ Clockwise and counter-clockwise operation
- ◆ Peak, first peak and track working modes
- ◆ Unit: N.m, N.cm, lbf.in, ozf.in, lbf.ft
- ◆ Target torque value can be set (10 target torque values can be saved and selected quickly), with audible and visible alarm:
 - Green LED light on and red LED light on and buzzer sounds when the value is 90%~100% of target torque
 - Both green and red LED light on and buzzer sounds when the target torque value is reached
- ◆ Memory of 2000 measurement values for browsing and output
- ◆ Power off in 5 minutes automatically

2 Names and functions or parts



- | | |
|--------------------------|---|
| 1. Green alarm LED | 9. Unit selection/Setting button |
| 2. Red alarm LED | 10. Pre-setting number selection button |
| 3. LCD display | Saving test value |
| 4. USB port | Setting tolerance (long press) |
| 5. DC port | 11. Down button |
| 6. Reset | 12. Up button |
| 7. Buzzer | 13. Connection cable |
| 8. Power on/Clear button | 14. Transducer |

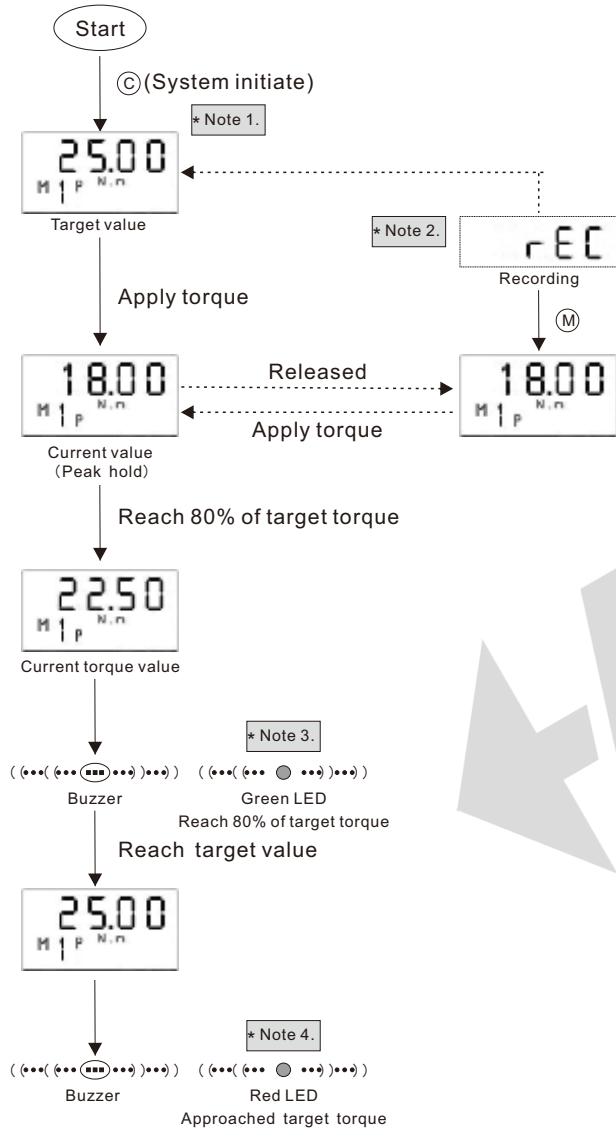
7 Peak hold mode recorded value review



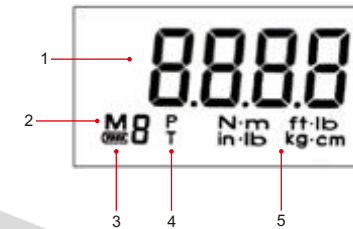
Note:

1. If **FULL** is appeared, that means the torque tester's memory is full and the next value record can not be written in. Please refer the "Peak hold mode recorded value review" section to clear the memory records. If the record is empty, it will show **n.o.n.E**.

6 Peak hold mode operation



3 Display screen



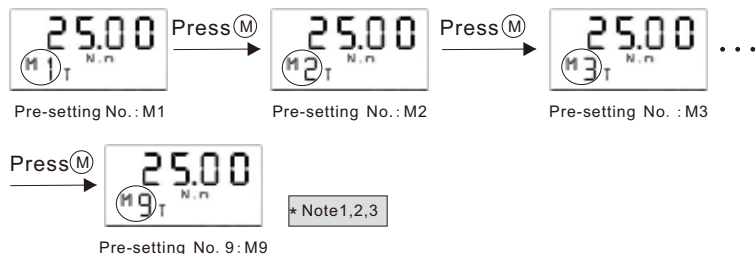
1. Torque value
2. Pre-setting number
3. Battery status icon
4. P(Peak hold mode)
4. T(Track mode)
5. Units(N-m, ft-lb, in-lb, kg-cm)

Basic operations

- 1 Power on and zeroing the torque tester
 - ◆ Press (C) to power on the torque tester.
 - ◆ Usually press (C) to zeroing the torque tester before using it.
- 2 Auto power off
 - ◆ The torque tester will auto power off after about 5 minutes idle for power saving. Press (C) to power on the torque tester again.
 - Caution:** During communication period (Send appears), the auto power off function is disabled.
- 3 Hardware reset
 - ◆ To do hardware rest, use a pin to touch the system reset button and then press (C) to power on the torque tester again.
 - ◆ If the tester does not work functionally, please do hardware rest.
- 4 Auto-saving(AUTO)
 - ◆ Long press (US) key to enter menu, the screen shows AUTO.
 - ◆ Press up and down keys to select ON or OFF, press (US) back to initial interface.
- 5 Lock the keys(LOC)
 - ◆ Long press (US) key to enter menu, then press (US) to make screen shows LOC.
 - ◆ Press up and down keys to select ON or OFF, press (US) back to initial interface.

Menu set up

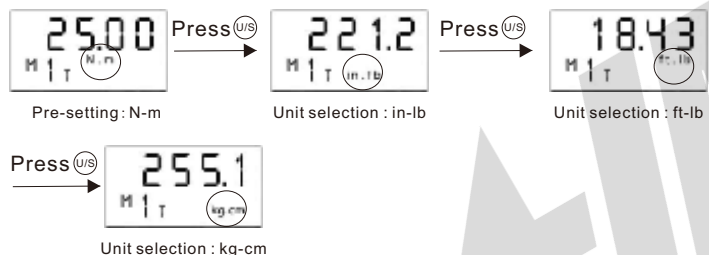
1 Pre-Setting No.



Note:

1. The maximum capacity for “Pre-setting No.” is 9 sets.
2. The “Pre-setting No.” is in sequential.

2 Unit selection

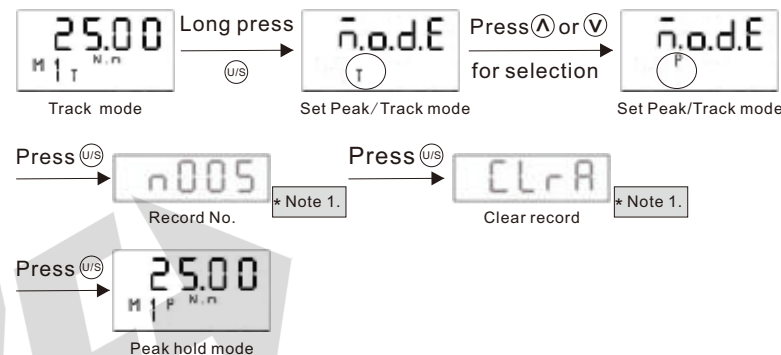


3 Set Torque Value

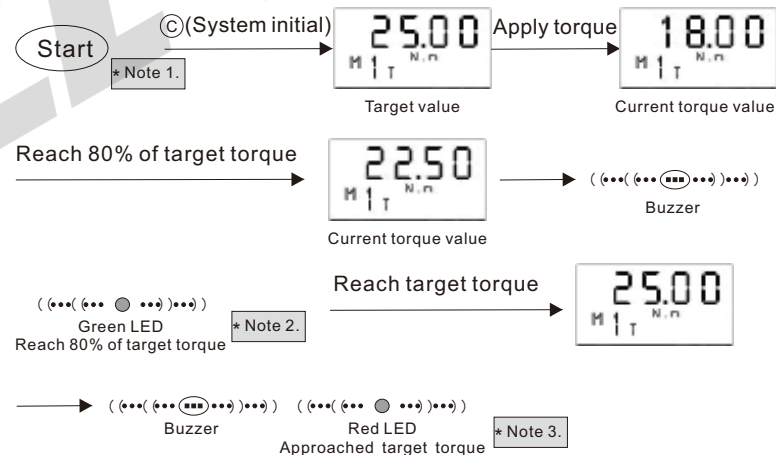


Note: The “Unit selection” cycles through all modes.

4 Peak hold/Track mode selection



5 Track mode operation



Note:

1. If [Er0] is appeared, that means this torque tester has ever been applied more than 110% of torque of the spec.
2. When 80% of the target torque is reached, the green LED will begin to flash and the alarm tone will beep intermittently.
3. When the target torque is approached, both green and red LED light on and buzzer sounds.