

Safety and General Information

Refer to the user manual for safety information relating to torque wrench operation, battery, and battery charger before operating this equipment.

Before using battery or battery charger. read all the instructions for cautionary markings on the battery and charger. which may include a separate wall-mounted power adapter or transformer. Altitude: <3000m

Temperature: 0°C~40°C

Intended use: to fasten or release bolts or screws.

*To reduce the risk of injury, use only originally provided battery, Charging dock and power adapter. Other types of batteries, battery chargers and power adapter may burst, causing personal injury and damage.

*For indoor use only, do not put it onto fire, do not expose charger to water, rain, or snow.

*Users and bystanders must wear safety goggles.

*Do not use it without power on.

*Do not use the torque higher than max scale or high limit.

*Store the equipment into box when not in use.

*The battery pack can not be used to power other device other than this electronic torque wrench.

ELECTRONIC TORQUE WRENCH TECHNICAL DETAIL

	Torque Display Range	Torque Full Scale (FS)		Length		Weight	
				Inch	mm	lb	g
ETWA25IC	2%-105%	220 lbf.in	25 N.m	15.5	394	1.74	790
ETWA27IC	2%-105%	248 lbf.in	28 N.m	15.5	394	1.78	810
ETWA100IC	2%-105%	73.8 lbf.ft	100 N.m	15.5	394	1.78	810
ETWA340IC	2%-105%	251 lbf.ft	340 N.m	28.5	724	3.52	1600

*Angle Range:0-999.9 degree with accuracy of +1-1%of reading

*Torque Accuracy(20%-100%FS: CW:±1.5%, CCW:±2.5%

.Accuracy may shift 3%more in 10-20%FS,and 6%more in 5-10%FS

.Flex head accuracy may shift 2%more on above.

*Need to control angular velocity within 10 to 180/Sec. *Programable

*Preset:100 groups,1-999 of job(s)for each group.

*Data Storage:6,000 for production mode,2,000 for simple mode.

*Charge and data connection: Type C port

*Battery pack:Li-ion,2000mAh

Charge and replace battery

The battery can be charged also by USB compatible power adapter or computer or notebook via data cable, the charging time depends on the computer or notebooks' performance. The cable is using USB type-c interface and included in the package.

LED charging indication:
RED LIGHT: charging
GREEN: Charging completed.

Charge/Data output when installed in ETW.

Charge Rechargeable battery pack only

Optional: 3*AAA Primary cell (1.5V) battery cartridge. (Not rechargeable)

Power on/off

Press and hold ROUND key for 2 seconds, the ETW will start self check and zeroing, once it's ready, it will enter previous interface.

Power off

Press ROUND key for 2 seconds, the ETW will show menu, you can press up or down key to select POWEROFF then press ROUND key to confirm.



* During zeroing, it's preferred to put it on table or stable position. It will shut off if not successful till auto shut-off time if without operation.

* It will auto power off after 10 minuts without any actions. (The AUTO SHUTOFF minutes can be adjusted in setup)

* Interchangeable head version (optional) will remind to check the head information when power-on.



Keys introduction

Press and hold ROUND Key for 2 seconds will

- Power on
- Go to option menu if in main interface
- Return to previous main interface when in other interfaces.

Press ROUND key will

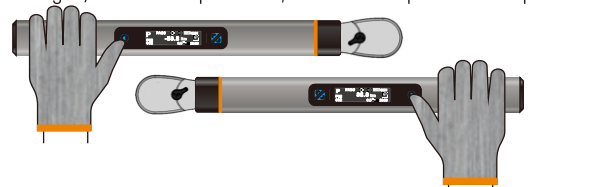
- Confirm the choice in option menu.
- Record current DATA to memory in each main interface. Once record, the write icon will flash once and counter will +1.

UP/DOWN key

The ETW is menu based, when in main interface, press UP key can view history data record, press DOWN key can select options.

Reversing display

For right/left hand operation, or in some special work position.



Enable/Change Password

Press and hold ROUND key, select SETUP, select PASSWORD&ACTIVE. Change to ENABLED and then change password. When it's done, press and hold ROUND Key then select YES in SAVE SETTING interface.



- * Remember the password.
- * Entering wrong password will go back to previous interface without notification.
- * When password is enabled, user can only use UP Key to view history data, and DOWN Key to change TARGET in Simple mode or Select Preset in Production mode.
- * If only P00 in system, then user will be constrained to use P00 preset.

Side LEDs indication (Torque/Angle)

Simple Mode

PEAK and TRACK: No LED indication. TARGET: Same as Production mode below.

Production Mode

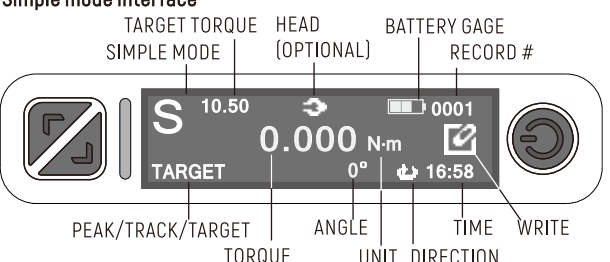
The RUNWAY light will indicate the progressing of target value. Remark: Beep and Vibration can be disabled in setup menu.

- 30%LSL/Beep
- 50%LSL/Beep
- 70%LSL/Beep
- 90%LSL/Beep
- 98%LSL/Beep&Vibration
- Within LSL and USL/Beep&Vibration
- Over USL or Overloaded/Flashing RED

Top LED Indication (Torque/Angle)

Same as first of side LED indication

Simple mode interface



- * See Page10 to switch among TRACK/PEAK/TARGET in main interface. TRACK: real time torque or angle
- PEAK: Display Max torque or angle for 5 seconds.
- TARGET: DOWN key to change value, tolerance can be adjust in menu.
- * Press UP key to view history data when in main interface. Press UP key again to quit or Press DOWN key to view earlier data.
- * When viewing data record, press ROUND key will active rework function. Rework will cover the record and marked reworked.

Simple mode setup

When in simple mode, press ROUND key for 2 seconds, select SETUP. The simple mode items will be displayed in prior.



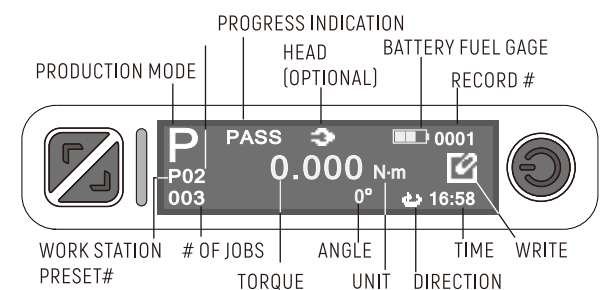
- * Click PEAK/TRACK/TAREGT and select the items. TARGET Torque value's tolerance can be adjusted in this menu(1-10%).
- * UNIT selection will be effective all configuration including display. Available: N.m, lbf.in, lbf.ft, kgf.cm, kgf.m
- * Simple mode can store 2000 records.
- * HISTORY DATA will show only simple mode data.
- * Angle is for reference and will auto Zero if no movement for 3 seconds.

Change the mode

Press and hold ROUND key, select SETUP then MODE OPTION.



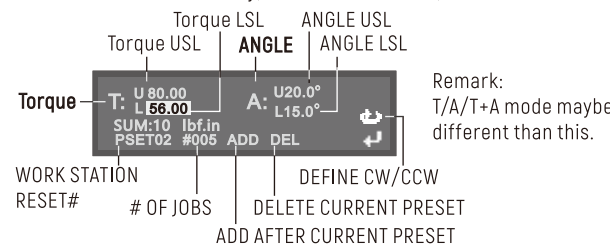
Production mode interface



- * Press UP key to view history data when in main interface. Press UP key again to quit or Press DOWN key to view earlier data.
- * When viewing data record, press ROUND key will active rework function. Rework will cover the record and marked reworked.
- * Click DOWN key to view current PRESET detail, click UP/DOWN Key to select other PRESET.
- * Auto Record function will only record the operation that 'meet target Value' or 'over target value'. It will not record 'lower' or 'reversed' value.

Production/PRESET mode setup

Press and hold ROUND key, then select SETUP, MODIFY PRESET.

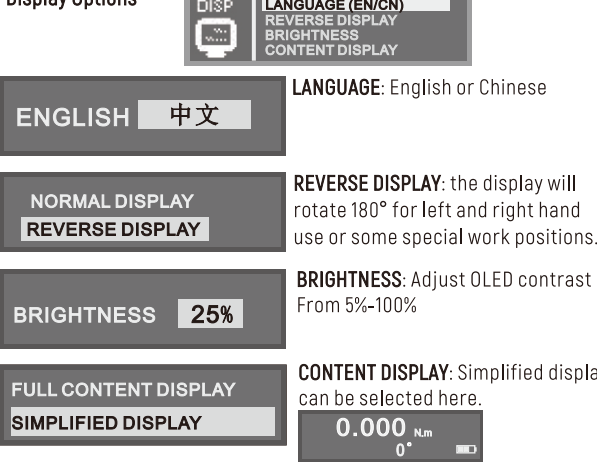


Remark: T/A/T+A mode maybe different than this.

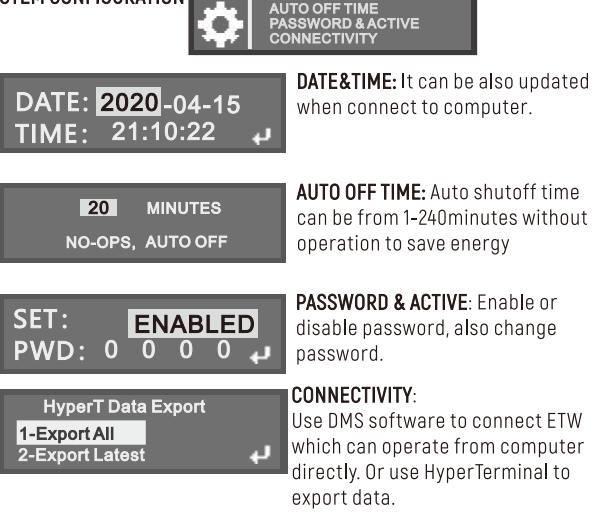
This PRESET describes that there are total 10 Presets in ETW, Preset02 requires Torque to be within 56-80lbf.in, each product will have 5 fasteners/Jobs to be tighten. Angle is not required.

* Production mode can have 100 presets, P00 is default in system. each preset can have 999 jobs. It can save 6,000 records.

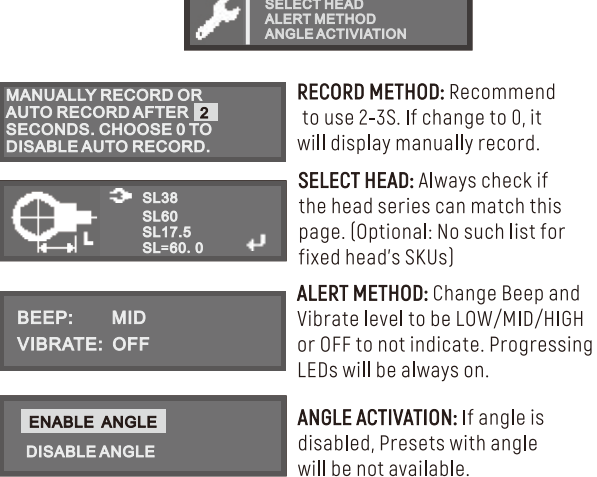
Display Options



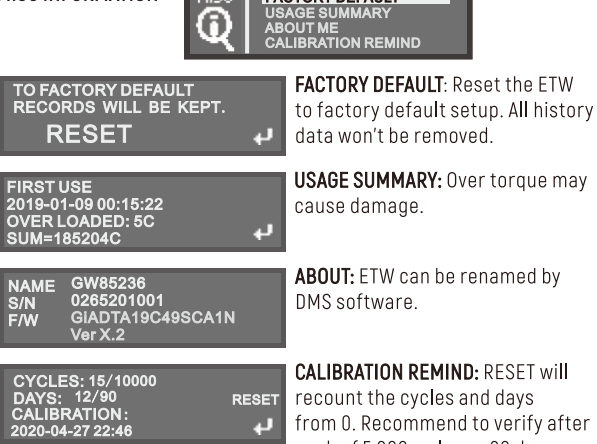
SYSTEM CONFIGURATION



OPERATION SETUP



MISC INFORMATION



CALIBRATION

Professional calibration devices is required,use only with certified testers.



QUICK START GUIDE

1:Enter or Quit SETUP Menu. Long press ROUND Key, Select'SETUP'and press ROUND key to confirm Click UP/DOWN key to select the item and make change. Long press ROUND Key again to quit, (If any changes,Select YES or NO to save or not,then quit.)

2:Setup SIMPLE MODE or PRODUCTION MODE.

Follow 1 to select MODE OPTION Then choose SIMPLE MODE or PRODUCTION MODE *Simple mode:PEAK/TRACK/TARGET *Production mode:PRESET

3:Setup TARGET TORQUE in SIMPLE MODE

Follow 2 to select SIMPLE MODE. Follow 1 to select TARGET in PEAK/TRACK/TAREGT then quit. Press DOWN key to adjust target torque.

4:Setup TORQUE and ANGLE in PRODUCTION MODE

Follow 2 to select PRODUCTION MODE. Follow 1 to enter MODIFY PRESET. Highlighted items can be selected in the interface. Select T and UP/DWON key to switch to TA as below. "T-torque, A-Angle, TA-Torque and Angle" Adjust other parameters then save and quit.



Data Management Software.

Connect ETW and Computer with Type-C data cable, the USB icon will appear. Run software, and operate from computer to get data etc.



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VerA.8