(ETW CAN ALSO WORK W/O SLEEVE)

## 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.



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- \*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.

Disp**l**ay Range

2%-105%

2%-105%

2%-105%

2%-105%

- \*Do not use the torque higher than max scale or high limit.
- \*Store the equipment into box when not in use.

Full Scale (FS)

25 N.m

N.m

100 N.m

340 N.m

ELECTRONIC TORQUE WRENCH TECHNICAL DETAIL

220

240

Ihf in

73.8

Ihf ft

**255** lbf.ft

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

\* Need to control angular velocity within 10° to180° /Sec.

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

USB type-c interface and included in the package.

\*Charge and data connection: Type C port

\*Battery pack: Li-ion, 2000mAh Charge and replace battery

LED charging indication:

RED LIGHT: charging

GREEN: Charging complete.

Charge/Data output

hen installed in ETW.

Charge Rechargeable

attery pack only

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

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

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

The battery can be charged also by USB compatible power adapter

on the computer or notebooks's performance. The cable is using

#### 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.

SL 38 PLEASE REDO SETUP IF USE OTHER TYPE HEAD

## Kevs introduction

#### Press and hold ROUND Key for 2 seconds will

- Power on

2

Weight

Inch mm Ib 9

15.5 | 394 | 1.74 | 790

15.5 | 394 | 1.78 | 810

394 | 1.78 | 810

724 | 3.52 | 1600

Optional:

Optional:

Dual pockets

charging dock.

3\*AAA Primary cell (1.5V)

battery cartridge.

(Not rechargeable)

Length

15.5

28.5

- 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 ontion 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

# ENABLED

- \* Entering wrong password will go back to previous interface without notification
- .Accuracy may shift 3% more in 10-20%FS, and 6% more in 5-10%FS data, and DOWN Key to switch PEAK/TRACK/TARGET in Simple mode and Select Preset in Production mode)
  - \* If only P00 in system, then user will be constrained to use P00 preset.

- \* Remember the password.
- \* When password is enabled, user can only use UP Key to view history

#### Side LEDs indication (Torque/Angle)

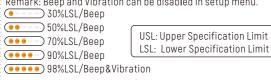
## or computer or notebook via data cable, the charging time depends Simple Mode

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.



Within LSL and USL/Beep&Vibration •••• Over USL or Overloaded/Flashing RED

### Top LED indication (Torque/Angle)

Same as first of side LED indication

#### Display Options



ANGUAGE: English or Chinese ENGLISH 中文

### NORMAL DISPLAY REVERSE DISPLAY

REVERSE DISPLAY: the display will rotate 180° for left and right hand use or some special work positions.

BRIGHTNESS: Adjust OLED contrast | Quick Tour 4-2: Use Simple Mode From 5%-100% BRIGHTNESS 25%

## **FULL CONTENT DISPLAY** SIMPLIFIED DISPLAY

CONTENT DISPLAY: Simplified display can be selected here.

14

0.000 N.n

## 10 SYSTEM CONFIGURATION



DATE: 2020-04-15 TIME: 21:10:22 DATE&TIME: It can be also updated when connect to computer.

20 MINUTES NO-OPS, AUTO OFF AUTO OFF TIME: Auto shutoff time can be from 1-240 minutes without operation to save energy

PASSWORD & ACTIVE: Enable or

disable password, also change

ENABLED PWD: 0 0 0 0 1

HyperT Data Export

## password. CONNECTIVITY:

Use DMS software to connect ETW

which can operate from computer directly. Or use HyperTerminal to export data

## OPERATION SETUP

1-Export All

2-Export Lates



RECORD METHOD: Recommend to use 2-3S. If change to 0, it will display manually record. SELECT HEAD: Always check if



page. (Optional: No such list for fixed head's SKUs) ALERT METHOD: Change Beep and MID Vibrate level to be LOW/MID/HIGH

ENABLE ANGLE

DISABLE ANGLE

VIBRATE: OFF

ANGLE ACTIVATION: If angle is disabled, Presets with angle will be not available.

LEDs will be always on.

the head series can match this

or OFF to not indicate. Progressing



O FACTORY DEFAULT SECORDS WILL BE KEPT RESET

FACTORY DEFAULT: Reset the ETW to factory default setup. All history data won't be removed

**USAGE SUMMARY:** Over torque may cause damage

ABOUT: ETW can be renamed by

DMS software.

**CALIBRATION REMIND: RESET will** recount the cycles and days from 0. Recommend to verify after each of 5,000cycles or 90 days.

Press and hold ROUND Key, then select 'SETUP' and select 'MODE OPTION', then choose 'simple mode' or 'Production mode'. And then press and hold ROUND Key again, and select 'YES'.

Professional calibration devices is required, use only with

CALIBRATION TORQUE

Same method to change other SETUP.

Quick Tour 4-1: MODE CHANGE

CALIBRATION

certified testers.

Following 4-1 to use 'Simple Mode'. Then enter PEAK/TRACK/TARGET and choose TARGET 5%. Long press round Key and save setting. Click DOWN key to change TARGET value and tighten 2 or more fasteners and click ROUND Key to record for each. Press UP key to view the latest result. Press UP key again to return to main interface. Or press DOWN key to view earlier data.

Press UP key then press ROUND Key, it will show rework function

## Quick Tour 4-3: PRESET in Production Mode

Following 4-1, change to 'Production Mode', Press DOWN key to view current PRESET. Press and hold ROUND Key, Select 'SETUP. then select 'Modify Preset'. Try to modify blue box content.



P00 is default in ETW. try to add and edit P01, iobs for this preset. Jnit change in main menu

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## Quick Tour 4-3: Use Production Mode

Following 4-1, change to 'Production Mode', Press DOWN key to view current PRESET. Or press UP or DOWN Key to other PRESET. Then press ROUND Key.

Try to use the PRESET to tightening a fastener and press ROUND Key to record. Then press UP Key to view the data, press ROUND Key to active 'Rework' and select 'YES', then redo tightening and record. R will show after #iobs.

## Data Management Software

#### Coming Soon!

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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## Production/PRESET mode setup

# OF JOBS

to select other PRESET

WORK STATION # OF JOBS

Simple mode interface

TARGET TORQUE HEAD

10.50

PEAK: Display Max torque or angle for 5 seconds.

The simple mode items will be displayed in prior.

\* Click PEAK/TRACK/TAREGT and select the items.

Available: N.m, Ibf.in, Ibf.ft, kgf.cm, kgf.m

\* HISTORY DATA will show only simple mode data

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

PEAK/TRACK/TARGET

\* Simple mode can store 2000 records.

TORQUE

key again to guit 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.

When in simple mode, press ROUND key for 2 seconds, select SETUP.

TARGET Torque value's tolerance can be adjusted in this menu(1-10%).

PROGRESS INDICATION

(OPTIONAL)

**3** 

0.000 N·m

ANGLE

UNIT

HFAD

BATTERY FUEL GAGE

Ø

DIRECTION

0001

16:58 دغه

RECORD#

\* UNIT selection will be effective all configuration including display.

SIMPLE MODE

S

PEAK/TRACK/TARGET

TRACK: real time torque or angle

Simple mode setup

Change the mode

SIMPLE MODE

PRODUCTION MODE

Production mode interface

PRODUCTION MODE

PRESET#

(OPTIONAL)

ANGLE

\* See Page10 to switch among TRACK/PEAK/TARGET in main interface.

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

BATTERY GAGE

TQ:

TIME

WRITE

16:58 طئ

UNIT DIRECTION

RECORD#

Press and hold ROUND key, then select SETUP, MODIFY PRESET. Torque LSL ANGLE USL

TORQUE

key again to quit or Press DOWN key to view earlier data.

\* Press UP key to view history data when in main interface. Press UP

When viewing data record, press ROUND key will active rework

\* Click DOWN key to view current PRESET detail, click UP/DOWN Key

\* Auto Record function will only record the operation that 'meet target

Value' or 'over target value'. It will not record 'lower' or 'reversed' value.

function. Rework will cover the record and marked reworked.

Torque USL | ANGLE | ANGLE LSL Torque -T/A/T+A mode maybe different than this. WORK STATION DEFINE CW/CCW RESET#

DELETE CURRENT PRESET

ADD AFTER CURRENT PRESET

\* When move to T, and click UP/DOWN key, T or T&A mode can be selected. 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.

### MISC INFORMATION