SCREW TO FIX SLEEVE (ETW CAN ALSO WORK W/O SLEEVE)

## Safety and General Information

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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.



ETWA25IC

ETWA2710

ETWA100I

ETWA340IC

- \*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.

ELECTRONIC TORQUE WRENCH TECHNICAL DETAIL

220

Ihf in

73.8 **I**bf.ft

251 Ibf.ft

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

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

USB type-c interface and included in the package.

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

\*Charge and data connection: Type C port

\*Battery pack:Li-ion,2000mAh

Charge and replace battery

LED charging indication:

RED LIGHT: charging

GREEN: Charging completed.

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

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

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

The battery can be charged also by USB compatible power adapter

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

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

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)

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

25

N.m

100

N.m

340 N.m

Length

Weight

Inch mm Ib 9

15.5 | 394 | 1.74 | 790

15.5 | 394 | 1.78 | 810

15.5 | 394 | 1.78 | 810

28.5 | 724 | 3.52 | 1600

Optional:

Optional:

Dual pockets

charging dock.

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.

HEAD SERIES: SL 38 PLEASE REDO SETUP IF USE OTHER TYPE HEAD

Kevs 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 ontion menu
- Record current DATA to memory in each main interface.

# 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.

Once record, the write icon will flash once and counter will +1.

## 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

- \* Remember the password.
- \* Entering wrong password will go back to previous interface without
- \* 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)

# 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.

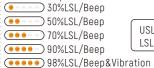
## **Production Mode**

The RUNWAY light will indicate the progressing of target value.

USL: Upper Specification Limit

LSL: Lower Specification Limit

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 rotate 180° for left and right hand use or some special work positions.

10 SYSTEM CONFIGURATION

WRITE

BATTERY GAGE

16:58 نے

UNIT DIRECTION

RECORD#

TIME

PEAK: Display Max torque or angle for 5 seconds. TARGET: DOWN key to change value, tolerance can be adjust in menu.

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

TORQUE

(OPTIONAL)

ANGLE

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

Simple mode setup

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



Simple mode interface

TARGET TORQUE HEAD

10.50

SIMPLE MODE

S

PEAK/TRACK/TARGET

TRACK: real time torque or angle

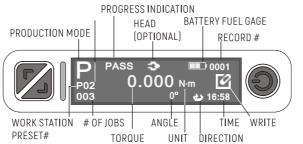
- \* Click PEAK/TRACK/TAREGT and select the items.
- TARGET Torque value's tolerance can be adjusted in this menu(1-10%).
- \* UNIT selection will be effective all configuration including display. Available: N.m, lbf.in, lbf.ft, kgf.cm, kgf.m
- \* Simple mode can store 2000 records.
- \* HISTORY DATA 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.

SIMPLE MODE PRODUCTION MODE

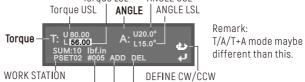
## Production mode interface



- \* 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. Torque LSL ANGLE USL



RESET# # OF JOBS 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.

REVERSE DISPLAY: the display will

BRIGHTNESS: Adjust OLED contrast From 5%-100% BRIGHTNESS 25%

**FULL CONTENT DISPLAY** SIMPLIFIED DISPLAY

DATE: 2020-04-15

TIME: 21:10:22

20 MINUTES

NO-OPS, AUTO OFF

به PWD: 0 0 0 0 0

HyperT Data Export

MID

VIBRATE: OFF

ENABLE ANGLE

DISABLE ANGLE

TO FACTORY DEFAULT RECORDS WILL BE KEPT

MISC INFORMATION

RESET

1-Export All

2-Export Lates

OPERATION SETUP

ENABLED

CONTENT DISPLAY: Simplified display can be selected here.

DATE&TIME: It can be also updated

AUTO OFF TIME: Auto shutoff time

can be from 1-240 minutes without

PASSWORD & ACTIVE: Enable or

disable password, also change

Use DMS software to connect FTW

which can operate from computer

directly. Or use HyperTerminal to

RECORD METHOD: Recommend to use 2-3S. If change to 0, it

will display manually record.

SELECT HEAD: Always check if

the head series can match this

page. (Optional: No such list for

ALERT METHOD: Change Beep and

Vibrate level to be LOW/MID/HIGH

or OFF to not indicate. Progressing

fixed head's SKUs)

LEDs will be always on.

will be not available.

data won't be removed

cause damage

DMS software.

FACTORY DEFAULT

ANGLE ACTIVATION: If angle is

disabled, Presets with angle

FACTORY DEFAULT: Reset the ETW

to factory default setup. All history

USAGE SUMMARY: Over torque may

**ABOUT:** ETW can be renamed by

**CALIBRATION REMIND: RESET will** 

each of 5,000cycles or 90 days.

from 0. Recommend to verify after

recount the cycles and days

when connect to computer.

operation to save energy

password.

export data

RECORD METHOD

CONNECTIVITY:

0.000 N.m

2:Setup SIMPLE MODE or PRODUCTION MODE.

Long press ROUND Key again to guit.

CALIBRATION

certified testers.

QUICK START GUIDE

Long press ROUND Key,

1:Enter or Quit SETUP Menu.

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

Select'SETUP'and press ROUND key to confirm

Click UP/DOWN key to select the item and make change.

(If any changes, Select YES or NO to save or not, then quit.)

\*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.

Professional calibration devices is required, use only with

CALIBRATION TORQUE

CALIBRATION ANG SAVE AND RETURN

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 to switch to TA as below. "T-torque, A-Angle, TA-Torque and Angle" Adjust other parameters then save and guit.



# Data Management Software.

Connect ETW and Computer with Type-C data cable, the USB icon will appear.

0.000 N·m

Run software, and operate from computer to get data etc.





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VerA.8