
EPT-SERIES SMART CORDLESS SCREWDRIVERS OPERATING INSTRUCTIONS

Rev 1.0 (8/15/2022)



Heading	Page
Layout Overview	2
Bar Code Scanner	2
Battery Information	3
Battery Charger	4
Screen Display Structure	5
Operation Mode	6
Battery Power Information	6
Torque and Speed Setting	7
Count Cancel (Last Count)	7
Network Information Display	8
Connections Overview	9
Fastening Parameters for Preset	10
Setup with ParaMonAirT and Web Server	11

EPT-Series Smart Electric Screwdrivers

DC25.2V, 3A max

Swiss DC servo motor

Built-in torque transducer and angle encoder

Built-in angle encoder

Battery operated

Wifi: IEEE 802.11a/b/g/n 2.4GHz & 5GHz dual band

Data memory: total of 65,000 data

Mini USB port

1.29" AMOLED color display



Pistol Grip



Right Angle

Layout Overview



Bar Code Scanner

The EPT cordless screwdriver features a built-in bar code scanner. Using the bar code scanner option allows the operator to instantly select and activate a programmed fastening event on the EPC-10 Controller. A bar code scanner can scan the bar code to trigger the correct event and capture and record the data for each run down by assigning a bar code to a fastening event.

For using the barcode scanner, pull the trigger twice in 0.3 seconds.

The barcode scanner turns on the red LED, as shown in the picture and turns off the LED when it scans the barcode.



Function

- The scanner is a 2D type that supports a typical bar code and a QR code and records up to 32 characters.
- The scanned barcode is stored with tightening data, that data is to be saved in a tool (up to 65,000 data), and data can be forwarded to the PC using a cable.
- EPC-10 Controller or **MountzCom** can set the barcode list. It can change the preset automatically by barcode.



Battery Specification

Model	EPT-Series Li-ion Battery
Battery cell	INR18650-30Q
Rated voltage	25.2V (3.6V cell x 7 cells)
Rated current	3.0 Ah
Max full charging voltage	29.4V (4.2V cell x 7 cells)
Lowest discharging voltage	17.5V (50% of full charge)

Battery Charging and Discharging

1. Never discharge the battery completely or lower than 50% of the full charge (two green bars on driver indicator). Otherwise, the battery will lose performance and have reduced life.

Battery Lifetime

1. Battery performance and lifetime depend on several factors:
 - a) Number of rundowns per day
 - b) Torque being applied (higher torque, higher power consumption)
 - c) Rundown time of application or duty cycle (driver on and off time)
 - d) Proper use and following charging instructions.
2. The normal lifetime of the Li-ion charging cycle can be as low as 300 cycles but can be extended up to 1000 cycles depending on use conditions.
3. Higher ambient temperatures affect battery life. Temperatures above 40 Celsius (104°Fahrenheit) can reduce battery life
4. It is recommended to charge the battery completely (a solid green line on the charger indicator) and use it until the driver battery indicator reaches two green bars out of four green bars.
5. Always charge the battery fully after been stored for more than 2 weeks.

Estimated Battery Life

Item	Specification	Information
Minimum battery life	300 charging cycles under these conditions: 1. The battery charge indicator on the driver is at a 50% level (two out of four green bars) 2. The battery is charged at full. The charger indicator is a solid green line.	See battery rundowns per full cycle charge (page 3)
Optimal operation temperature	10 ~ 60°C 50 ~ 140°F	Shorter lifetime or battery failure
Charging temperature	0 ~ 40°C 32 ~ 104°F	Suspend charging if weather conditions are extreme
Storage condition	Keep the battery over 50% charged (2 green bars) Temperature: Storage -30~25°C (-22 – 77°F): 1.5 year -30~45°C(-22 – 113°F): 3 months -30~60°C(-22 – 140°F): 1 month Humidity : 65% +/- 20% RH	Always remove the battery from the driver when not being used

Battery Charger

Charger for EPT Battery (110V, 60 Hz) Item # 313104

Input: AC100 - 127V, 50/60Hz, 2.2A

Output: DC25.2V, 4.0A

Operating environment: 0 ~ 40°C / 15 ~ 80% RH (without dew)

Full charging time: 53 minutes

Safety class: Class II

Charger for EPT Battery (220-240V, 50/60 Hz) Item # 313103

Input: AC220 - 240V, 50/60Hz, 1.05A

Output: DC25.2V, 4.0A

Operating environment: 0 ~ 40°C / 15 ~ 80% RH (without dew)

Full charging time: 53 minutes

Safety class: Class II



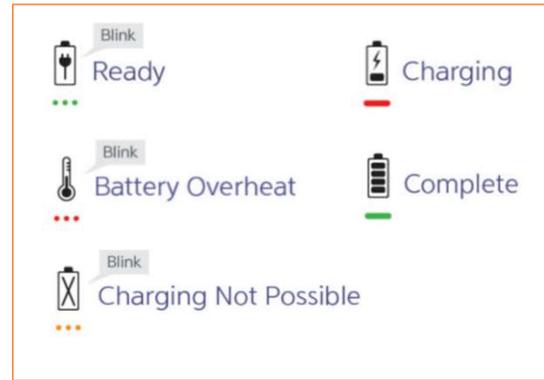


Battery inlet

LED display

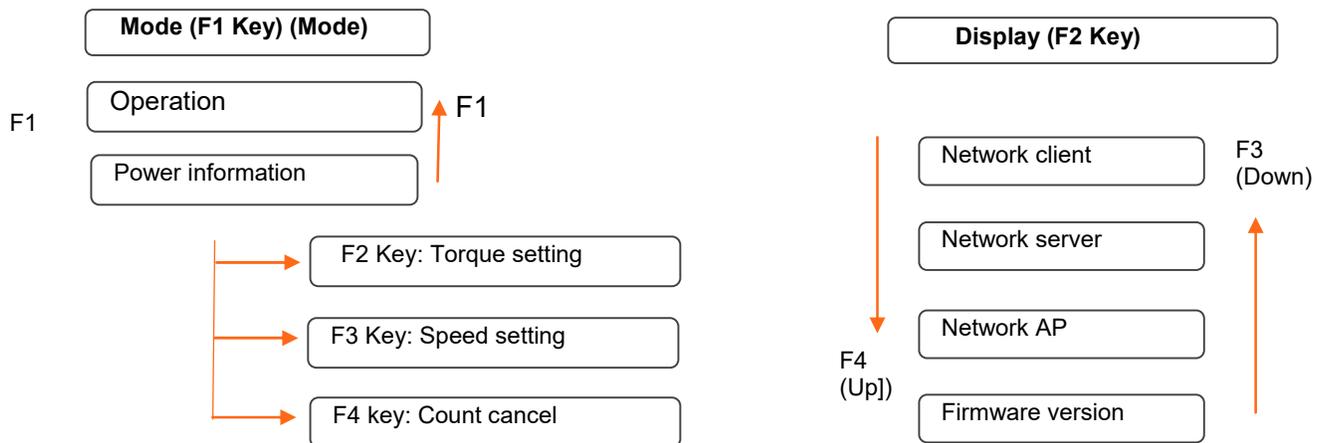
LED display information

Color	Status
Green (blink)	Ready
Red	Charging
Green	Complete
Red (blink)	Battery overheat
Yellow (blink)	Charging Not possible



Screen Display Structure

The operation mode screen is a default screen when the screwdriver battery power is connected.



Note: The F1 key can be locked in the controller's "LCD button lock" function to prevent setting modification. All keys can be locked as well.

Operation Mode

There are three different modes: Operation, Power information & Torque setting.



The operation mode screen is a default window when the screwdriver battery power is connected.

Note: Display enable preset can be set in controller settings – to allow only presets which can be used.

Key	Function	Description
F1	MODE	Mode change from operation to information & setting
F2	DISP	Display change to show the network information
F3	DOWN	Select Preset # down
F4	UP	Select Preset # up

Battery Power Information

An operator can check the battery status on display. High power means that 25.2V battery is connected and fully charged.

When the battery voltage is low, the screwdriver will automatically power off.



Torque and Speed Setting

The target torque and rundown speed can be modified for all presets.

Select the Preset # to change the torque or speed setting. From the operation menu first, select the preset with key F3 (Down) or F4 (Up).

Press key F1 (MODE), then press key F2 for speed or key F3 for torque.

Speed can be modified manually only if the 'Autospeed' setting is off.

All other parameters should be changed on the PC software – MountzCom.



Key	Function	Description
F1	SET	Set the torque and change mode to operation
F2	SHIFT	Shift the digits from right to left
F3	DOWN	Decrease number
F4	UP	Increase number

Count Cancel (Last Count)

This function supports job management with EPC-10 controller (option).

The last Fastening OK count can be canceled by pressing “ -1 “ count cancel key.

From the operation menu, press key F1 (MODE), then press key F4 (-1).

Key	Function	Description
F1	YES	Confirm count cancel (-1)
F2	-	Not Used
F3	-	Not Used
F4	NO	Return back to operation



Network Information Display

All networking settings are available on the PC software MountzCom which is connected by the USB port.

From operation menu press key F2 (DISP).

→ F4 (Up)

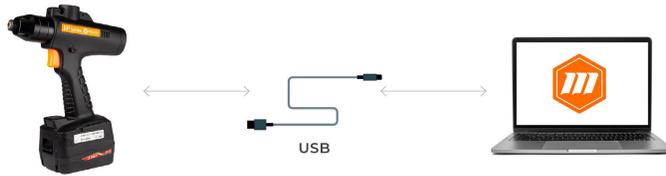


F3 (Down) ←

No	Network	Description
1	Client	Information about the networking of the EPT screwdriver Mode: DHCP (Dynamic Host Configuration Protocol) IP address: 192.168.0.4 Gateway: 192.168.0.1 Net Mask: 255.255.255.0
2	Server	Information about the networking of the PC software, MountzCom IP address: 192.168.0.53 Port: 5000
3	AP	Information about the networking of the AP SSID: Hantas_5G
4	Firmware ver.	Screwdriver firmware version Ver : 0.70.2 S/N: 2102190016 - 21(year)02(Month)19(EPT code)0016(serial) Model: Screwdriver model TS: torque transducer digital value

Connections Overview

USB Connection



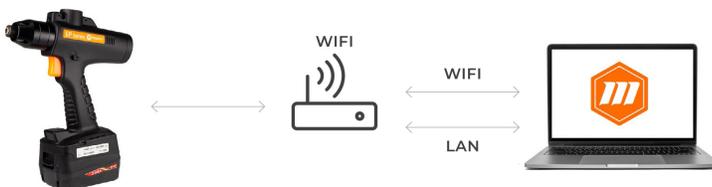
- Initial network and parameter setting, data monitoring
- Data download from the internal memory
- Tool firmware update

Wi-Fi connection to EPC-10 Controller



- Parameter setting, data monitoring, and process guide via job manager
- Save tool fastening data in a file system
- Tool remote control

Wi-Fi connection to PC via AP



- Parameter setting, data monitoring on PC with MountzCom or custom software
- Protocols are open for programming the custom software

Fastening Parameters for Preset

Can configure up to 15 presets consisting of up to 30 process sequences with 20 program steps. Each preset contains the following parameters:



Fastening settings

1. Type (TC/AM or AC/TM)
2. Target Torque or Max torque
3. Torque limit (%) or Min torque
4. Target angle or No use
5. Min angle
6. Max angle
7. Snug torque
8. Speed
9. Angle for free speed
10. Free speed
11. Soft start
12. Seating point
13. Torque rising time
14. Ramp-up speed
15. Torque compensation

Advanced Function

1. Free reverse rotation
 - Speed & angle
2. Thread Tapping
 - Min / Max torque
 - Speed & angle
 - Angle start from Thread Tapping
3. Engaging torque detection
 - Speed, torque, angle, time
 - Angle start from engaging
4. Angle after torque-up
 - Speed, angle, direction

Mountz Calibration and Repair Services

Mountz Inc. features an experienced calibration and repair staff. Our trained technicians can calibrate and repair most any tool. Mountz provides rapid service with quality that you can trust as we offer three state-of-the-art calibration lab and repair facilities.

About Mountz

Mountz, The Torque Tool Specialists[®], has been a leader in the torque tool industry for more than 55 years. Engineered in the Silicon Valley and serving the globe, Mountz focuses on delivering high-quality torque products, services, and solutions to ensure customers can always proceed with confidence. We are committed to forging a safer world through precision and accuracy and by innovating every day.

Mountz Service Locations

Eastern Service Center

19051 Underwood Rd.
Foley, AL 36535
Phone: (251) 943-4125
Fax: (251) 943-4979

Western Service Center

1080 N.11th Street
San Jose, CA 95112
Phone: (408) 292-2214
Fax: (408) 292-2733

UK Service Center

Pier Copse Courtyard, Milland Lane,
Liphook, Hampshire, GU30 7JN, UK
Phone: 00 44 1428 741756

www.mountztorque.com