

ETS Torque Monitoring Electric Screwdriver



KEMP ideal solution for Industry 4.0 production line. We provide immediate feedback on each tightening process. ETS screwdrivers work in combination with control units together. Their built-in transducer continuously reads torque and position of the screw and sends the gathered data to the controller for analysis.

The tightening torque of current tools is calculated by simulation results rather than real torque. That's the reason why basically these products has been eliminated by the market.

KEMP ETS Ser. provide immediate feedback on each tightening process, be able to check at a glance whether the part is correctly tightened or not.



ETS Series - Torque Monitoring Electric Screwdriver

Making the Screwdriver Smart

Hall Effect Switch

Non-contact type switch that reduces the effects of wear and tear, which greatly enhances the durability and reliability.

Coreless Brushless Motor

With low inertia characteristic, the motor performs with stability and precision at both high and low speed range.

Patented Transducer Technology

High precision torque sensing mechanism with high sensitivity and durability.

High Strength Clutch Mechanism

A proven design tested over 2 million fastening cycles at maximum torque.

LED Lights & Buzzer

Built-in signal lights with three colors to inform the user about the status of each fastening cycle.





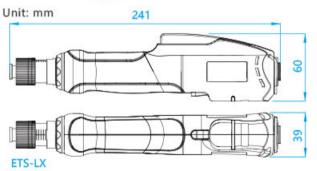
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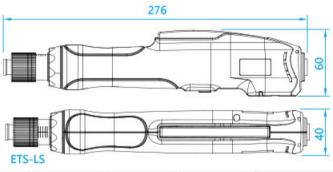


High Strength Spring

Tested over 1 million fastening cycle to ensure the spring tension is retained to reach the maximum torque.

Dimensions





Model	Drive Size (Hex.)	Torque	Range	Free Speed	Screw Seating RPM	Dimensions	Weight	Item No.
	mm / inch	kgf.cm	Nm	rpm	rpm	mm	kg	
ETS-LX02	Ø4	0.5~2	0.05~0.2	200~1000	200	241 x 60 x 39	380g ±10 %	305 20 001
ETS-LX06	Ø4	1~6	0.1~0.6	200~1000	200	241 x 60 x 39	380g ±10 %	305 20 002
ETS-LX10	Ø4	2~10	0.2~1.0	200~1000	200	241 x 60 x 39	380g ±10 %	305 20 003
ETS-LS06	1/4	1-6	0.1-0.6	200~1000	200	276 x 60 x 40	570g ±10 %	305 20 101
ETS-LS16	1/4	1-16	0.1-1.6	200~1000	200	276 x 60 x 40	570g ±10 %	305 20 102
ETS-LS20	1/4	2-20	0.2-2.0	200~1000	200	276 x 60 x 40	570g ±10 %	305 20 103
ETS-LS24	1/4	4-24	0.4-2.4	200~1000	200	276 x 60 x 40	570g ±10 %	305 20 104

Included accessories: 1 x Torque Locker Cover, 1 x Cable 8pin 2.0m (93520101)

Spec. for Cable

Туре	Length M	pin	Item No.
Cable 6pin 2.0m	2	6	935 20 111
Cable 8pin 2.0m	2	8	935 20 101

^{*} According to KEMP product improvement policy, it will not be notified immediately when changes to the design and specifications. Please check KEMP's website for the latest information.

ETS Controllers unit

Function:

- Real-time monitoring Displaying real-time status: OK, All OK, NOK, unfinished rundown, cross threading, omission, incomplete cycle, torque curve, time and number of turns.
- Parameter Setting
 Fastening setting includes target torque, fastening duration(time), number of turns, speed(RPM), screw count and system lock.
- Flexibility in Connection
 Can be connected with mobile devices, laptop,
 PC or other system for controls
- Data Storage
 Built-in 16G memory capable of storing over
 1 million set of fastening data, or data can be transferred to external device for storage through
 WIFI or ModBus
- Access Authorization Three levels of authorization for the most secure management on the assembly line.
- Scan management The USB port can be connected to a wired or wireless barcode machine. Execute work order scanning code record and technical function scanning code unlocking.

Smart Monitoring

Intuitive Control Interface

■ ETS-LC1A Controller can be programmed with the 5" touch screen, mobile device, PC and laptop through WIFI connection.

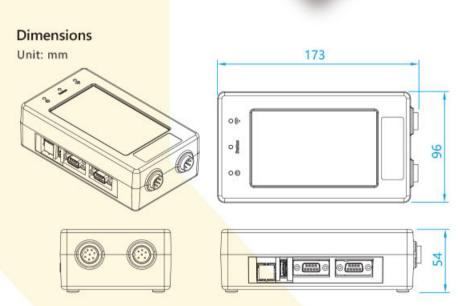
Controller with 5" Touch Screen

ETS-LC1A Controller is equipped with 5" touch screen for easy access to the control and settings.

The controller is conveniently-sized for easy placement on the assembly line.







Model	Screen	DC output	10	Internal storage	Dimensions mm	Weight kg	Item No.
ETS-LC1A (Advanced)	5" TFT LCD	20-30V ±10 %	8 Point (Output 4 · Input 4)	16G / up to 1 million records	173 x 96 x 54	415±10 %	335 20 102

Communication port: RS232/RS485/USB A-Type/Wi-Fi

Included accessories: 1 x Power Supply (30820100), 1 x Cable 6pin 2.0m (93520111)

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	Specification	Description	
Number of screw setting for each workpieces	1-99	All OK determination	
Fastening time setting	0.01-9.99 sec.	Error-proofing capabilities	
Fastening torque standard	0.1~0.6/0.1~1.6/0.2-2.0/0.4~2.4 Nm		
Torque calibration point	1-10 point		
Access Authorization	Master · Managersx 2 · User		
Communication Protocol	ModBus RTU	RS232/RS485	
Data storage	up to 1 million records	Overwrite records after 100 days	
Barcode scan	25 character	USB port/Lock	
IO output	DO1: All OK DO2: OK DO3: NG DI1: Enable DI2: CW DI3: CCW DI4: Lock		

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