



ET2SA

ELECTRONIC TORQUE WRENCH E-TORC with rotary angle measurement

Tightening check for torque/rotary angle:

- Optical, acoustic and sensory signalling on reaching the set bolting parameter/with additional visualisation of screw tightening by means of LED progress bar.
- Software-enabling graphics evaluation.
- Marked contrast graphics display with backdrop lighting

Drive:

- Spigot end 22/28 mm, 1/4" square drive or 9x12/14x18 mm rectangular cavity with pin-locking mechanism. The installation size determines the drive.
- ET2SKA 150 and ET2SKA 300 incl. 1/2" rectangular reversible ratchet head
- For hard-to-access places and given not enough room.
- Special tools on request.

Light and pleasant:

- The aluminium housing and ergonomic handle ensure easy, safe handling - even with large tightening torques.
- Tool holding fixture, as from ET2SKA 150 120° rotatable to the aluminium housing

Function keys:

- Easy to use
- Key pressure taring
- Side ergonomic operating key
- Convertible from N-m to lbf-ft via software

Fields of operation:

- Mini-batch assembly
- Quality assurance
- Test labs and testing departments
- Emergency strategies for bolting stations
- Corrective work places
- Inspection and analysis of bolted connections

Version:

- Large field of operation 2-1000 N-m
- Tool holding fixture 1/4" square, 9x12, 14x18 rectangular cavity with pin-locking mechanism, 22 and 28 mm spigot end
- Signalling: visual (LED progress bar), acoustic (beep), sensory (vibration)
- Tool holding fixture, as of ET2SKA 150 120° rotatable to the aluminium housing
- Traceable to national standards
- Torque reading precision $\pm 1\%$, ± 1 digit from reading figure
- Factory certificate as per DIN ISO 6789 Type I Class C
- Optional certificate as per DAkkS-DKD-R 3-7
- Rotary angle calibration based on VDI 2648 Sheet 2
- Key pressure taring
- Side ergonomic operating key
- Backlit graphic display
- Input of depth gauges for a variety of attachment tools
- Power supply: Battery or rechargeable battery operation

Evaluation:

- Reading a max. 2,000 data records
- Serial interface RS232 for PC (USB adapter enclosed)
- Comprehensive documentation of all screw parameters
- Flowchart with 100 screw parameters
- Curve memory (50 curves for each 100 values/sec.)

Scope of delivery:

- Electronic torque wrench Etorc2S/A
- Operating instructions with brief guide
- Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- 2 standard Mignon AA batteries
- Evaluating software and data transmission cable RS232 and USB
- ET2SKA 150 and ET2SKA 300 incl. 1/2" rectangular reversible ratchet head
- Delivered in a robust sheet-metal case with insert

6.3

1/4"

12.5

1/2"

9x12

14x18

22

28



"	mm	Ø	N-m	lbf-ft	lw	a	b	c	d	kg	Code	No.
1/4	6.3		2-25	1,5-18	275	35	45		347	0.8	2795493	ET2SKA 25
1/2	12.5	9 x 12	10-150	7-111	457	35	45	17.5	514	1.3	2795612	ET2SKA 150
1/2	12.5	14 x 18	30-300	22-221	696	35	45	25.0	753	1.8	2795620	ET2SKA 300
		22	100-600	74-443	990	35	45	56.0	1055	3.2	2795639	ET2SZA 600
		28	100-1000	74-750	1423	40	45	75.0	1488	5.7	2795655	ET2SZA 1000

**TT3KH****ELECTRONIC TORQUE WRENCH TORCOTRONIC III 10-350 N·m / 7.4-258.2 lbf·ft****Use:**

- For everyday requirements in installation and torque control
- For use in all areas of manufacturing and development

Features:

- Microprocessor-controlled, electronic torque wrench
- For controlled bi-directional tightening
- Acc. to DIN EN ISO 6789, traceable to national standards
- Robust workshop design
- Broad measurement range in N·m, can be switched to lbf·ft
- With 1/2" reversible ratchet. The ratchet is exchangeable, providing the option of using a 9x12 mm (TT3H 120) or 14x18 mm (TT3H 350) square socket

Characteristics:

- Torque and torque angle measure
- 5 different measuring modes
- 5 parameters storable
- USB interface for data exchange
- 2000 storage places
- Measurement accuracy torque $\pm 1\%$, ± 1 digit
- Measurement accuracy torque angle $\pm 1\%$, but min. $\pm 1^\circ$ on 360° with min. $4^\circ/\text{sec}$
- Different depth gauges for end fittings programmable
- Simple to operate with easy to understand icon-menu navigation and 4 functional keys
- Clearly readable, illuminated LCD display
- Resolution torque: 0.1 N·m
- Resolution torque angle: 0.1°
- PC-software easy to operate for uncomplicated programming and documentation of data
- Data can be transferred to MS Excel®
- Keyboard lock
- Operation with standard Mignon AA or optional with rechargeable-battery (NiMH)
- Visual signal: 3x LED (yellow, green, red)
- Acoustic signal: buzzer
- TÜV certified, CE and RoHS
- 2 models in the range 10 - 350 N·m
- Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- Calibration to DAkkS-DKD-R 3-7, Class 1 (on request)

Scope of delivery:

- Electronic torque wrench TorcoTronic III HighLine
- Reversible ratchet 1/2"
- USB cable
- Software on CD-R
- Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- Delivered in a transparent plastic box with insert

Attention:

- A PC, running a Windows® operating system (from Windows XP®) is required to obtain the full benefit of all the functions of this product.

12.5

1/2"

9x12

14x18



"		mm	N·m	lbf·ft		Code	No.
1/2	12.5	9 x 12	10-120	7,4-88,5	0.9	2648636	TT3KH 120
1/2	12.5	14 x 18	70-350	51,6-258,2	1.2	2648644	TT3KH 350



➔ 7112 - 7918

316 - 318



9x12

14x18

