

# ETA2 & ETA5 Expert Torque Analyser



Expert Torque Analyser ETA2 & ETA5 with the range of patented impulse proof transducers allows dynamic torque control and sampling for the operation performed with different assembly tools.

- Four modes to check effective torque values for the operation performed with screwdrivers and angle wrenches (peak torque and track torque modes), impulse tools and torque wrenches
- Indicator lights and audible alarm High / Pass / Low torque (>, =, <)
- Time and Date stamped readings, nine units of measure
- Full touch membrane key pad and four line display
- Data analysis: range, mean, sigma ( $\sigma$ ), capability (Cp, Cpk, Cm, Cmk) calculation for the series of measurements
- Pulse count (for impulse tools)
- RS232 connector for transfer of the memorised readings and statistical data to a PC or serial printer
- Powerful and reliable Ni-Mh battery for full shift of continuous work with fast charge battery technology (battery with no memory effect)
- Choice of language: English, French, German, Italian, Spanish, Swedish
- TouchSynch compatible "E-chip" to allow Assets Track Management.
- ETA2: 200 readings memory, ETA5 with capacity to store up to 20.000 measurements, and group them.
- Autocalibration (transducer can automatically be recognised by ETA2/ETA5) and angle measurement (depending on transducer).

Torque analysers are delivered in a carrying case complete with neck strap, battery charger and cables for connecting printer and PC.

TRD & TRDA transducers are fitted with cable. For other transducers please order ETA2-TC connecting cable.

## Torque transducers and joint simulator kits

### ROTARY TRANSDUCERS

- Unique golden wrap-around brush design offering consistent result on both impulse and clutch type tools
- Designed to work with screwdrivers, angles wrenches, impulse tools and torque wrenches

Rotary transducers are used mainly to control dynamic torque reached during fastening operations performed with mechanical or hand tools. With appropriate joint simulators recommended by Ingersoll-Rand, they can also be used in laboratories and workshops.

Joint simulators for rotary transducers

Model	Max. torque	Output drive	Input drive	Joint thread
JKR20	28 Nm	■ 1/4"	● 13 mm	M8-1,25
JKR75	75 Nm	■ 3/8"	● 19 mm	M12-1,75
JKR180	180 Nm	■ 1/2"	● 24 mm	M16-2,0
JKR500	500 Nm	■ 3/4"	● 36 mm	M24-3,0

Industrial standard transducers	With angle measurements & autocalibration	Torque range [Nm]	Drive [inch]
TR2H4	----	0,10 – 2	● 1/4"
TR5H4 <sup>1)</sup>	TRDA5H4	0,25 – 5	● 1/4"
TR20H4 <sup>1)</sup>	TRDA20H4	1 – 20	● 1/4"
TR20S4 <sup>1)</sup>	TRDA20S4	1 – 20	■ 1/4"
TR75S6 <sup>1)</sup>	TRDA75S6	3,8 – 75	■ 3/8"
TR180S8 <sup>1)</sup>	TRDA180S8	9 – 180	■ 1/2"
TR250S12	----	12,5–250	■ 3/4"
TR500S12 <sup>1)</sup>	TRDA500S12	25 – 500	■ 3/4"

<sup>1)</sup> - Available with autocalibration (TRD series)



### STATIONARY TRANSDUCERS



Joint simulator JKR

JKST set

Stationary transducers are used both in workshop as well as on assembly line. They allow quick check of the torque set of a power or hand tool.

For power tool verification they are usually used with an appropriate joint simulator. The simulator joint rate can be changed to emulate different joint conditions from hard to soft. Transducer with joint simulator kits are very useful in tool cribs to preset power tools for production and test power tool capability under different joint rate.

Transducer model	Transducer range [Nm]	Joint simulator	Range of joint simulator [Nm]	Transducer + joint simulator kit	Transducer square drive	Joint input drive	Joint thread
TS28S4 <sup>2)</sup>	1,5-30	JKS30	20	JKST28	■ 1/4"	● 13 mm	M8-1,25
TS135S6 <sup>2)</sup>	7,5-150	JKS150	75	JKST135	■ 3/8"	● 19 mm	M12-1,75
TS271S8 <sup>2)</sup>	15-300	JKS300	180	JKST271	■ 1/2"	● 24 mm	M16-2,0
TS1017S12 <sup>2)</sup>	50-1000	JKS1000	500	JKST1017	■ 3/4"	● 36 mm	M24-3,0

<sup>2)</sup> - TS series transducer can optionally be offered with autocalibration feature (TSD series).

Transducers: overload capacity up 125% of full capacity, accuracy: 0,3 % FSD, zero offset stability 0,1% / °C, operating temperature: 5 – 40°C.