

Torque Measuring Instruments



SPEC®

STATIC MEASUREMENT

Torque setting and traceability of your assembly tools

SPEC MEMORY TORQUE TESTERS

The SPEC memory torque testers consist of an electronic readout with an integrated static torque transducer. They are dedicated to the control and the adjustment of the torque delivered by electric or pneumatic screwdrivers, and torque wrenches.

QUALITY - COMFORT - SAVINGS

- ✓ Easy to use scroll menu
- ✓ Accuracy : +/- 0,2% of full scale
- ✓ 500 data FIFO memory capacity
- ✓ RS232 output
- ✓ Mini/ok/maxi torque limits with sound alarm
- ✓ Peak/first peak/track signals
- ✓ CM, CMK statistics, average, standard deviation **(SMART models only)**
- ✓ Real time clock
- ✓ Automatic & manual reset
- ✓ Suitable with impulse tools **(SMART models only)**



Model	Capacity	Power supply	Autonomy	Male hexagonal drive	Statistics	Impulse tool	Code
EZ 5	5 Nm +/- 0,01 Nm	9 V Cell	18 h 00	13mm a/flats	Without	No	7500257
EZ 20	20 Nm +/- 0,04 Nm	9 V Cell	18 h 00	13mm a/flats	Without	No	7500500
EZ 5 SMART	5 Nm +/- 0,01 Nm	9 V Cell	18 h 00	13mm a/flats	With	Yes	7500258
EZ 20 SMART	20 Nm +/- 0,04 Nm	9 V Cell	18 h 00	13mm a/flats	With	Yes	7500256

Delivered with a suitcase, one 9 volts cell and a control certificate.
The test joint is not included and must be ordered separately.

TEST JOINTS FOR TESTERS AND STATIC TORQUE TRANSDUCERS

The test joints allow to simulate franc, semi-elastic or elastic assembly. They integrate the screwdriver rotation speed and they simulate your assembly conditions for an optimized adjustment.

The SVS13 test joints are suitable with all the SPEC testers and the static transducers until 20 Nm. The SVS24 test joints are suitable with static transducers from 200 to 500 Nm.

Model	Fastening simulation	Drive	Code
SVS 13 F	Franc	1/4" male hexagonal	7502000
SVS 13 SE	Semi-elastic	1/4" male hexagonal	7502001
SVS 13 E	Elastic	1/4" male hexagonal	7502002
SVS 24 F	Franc	3/8" female square	7502003
SVS 24 SE	Semi-elastic	3/8" female square	7502004
SVS 24 E	Elastic	3/8" female square	7502005

Dedicated to very low torques, the screw test joints SAV13 are suitable with all the SPEC testers and static transducers until 20 Nm.

Model	Drive	Code
SAV 13 M2	M2 hex. int. screw	7500502
SAV 13 M3	M3 hex. int. screw	7500503
SAV 13 M4	M4 hex. int. screw	7500504



STATIC AND DYNAMIC MEASUREMENT

Ideal for laboratory test and spot control along the assembly line

SPEC TORQUE READOUTS FOR STATIC AND DYNAMIC TRANSDUCERS WITH BRUSHES

The SPEC torque readouts are easy to use and are equipped with a high accurate electronics.

- ✓ Easy to use scroll menu
- ✓ 500 data FIFO memory capacity
- ✓ RS232 output
- ✓ Mini/ok/maxi torque limits with sound alarm
- ✓ Peak/first peak/track signals
- ✓ Suitable with impulse tools (**SMART model only**)
- ✓ Cp, Cpk statistics, average, standard deviation (**SMART model only**)



Model	Accuracy	Power supply	Autonomy	Statistics	Impulse tool	Code
TA	+/- 0,05%	9 V Cell	18 h 00	Without	No	7500501
TA SMART	+/- 0,05%	9 V Cell	18 h 00	With	Yes	7500254

Delivered with a suitcase, one 9 volts cell and a control certificate.

STATIC TORQUE TRANSDUCERS

The ST static torque transducers are suitable with "TA" and "TA SMART" torque readouts. They are dedicated to the static control and to the calibration of your electric and pneumatic screwdrivers, impulse and torque wrenches.



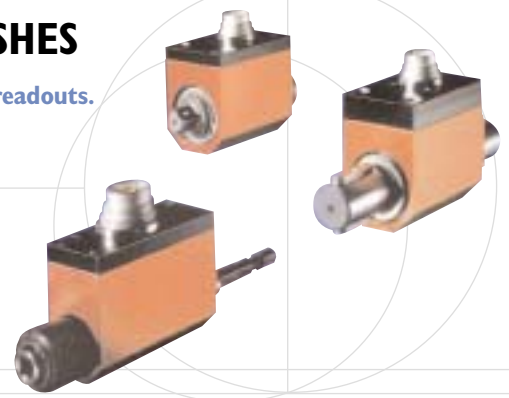
Model	Capacity	Sensitivity	Male hexagonal drive	Code
ST 2	2 Nm +/- 0,004 Nm	1 to 1,5 m V/V	13mm a/flats	7501020
ST 20	20 Nm +/- 0,04 Nm	1 to 1,5 m V/V	13mm a/flats	7501021
ST 200	200 Nm +/- 0,4 Nm	1 to 1,5 m V/V	24mm a/flats	7501023
ST 500	500 Nm +/- 1 Nm	1 to 1,5 m V/V	24mm a/flats	7500259
ST 1000	1000 Nm +/- 2 Nm	1 to 1,5 m V/V	38mm a/flats	7500260

Delivered with a connection cable (code 7500404). The test joint is not included and must be ordered separately.

SPEC ROTARY TORQUE TRANSDUCERS WITH BRUSHES

The B rotary torque transducers are suitable with "TA" and "TA SMART" torque readouts. They are equipped with self-lubricating brushes and high accurate ball bearings. This range will answer to your quality and lifetime requirements.

- ✓ Self lubricating brushes for an increased lifetime
- ✓ 1/4" quick chuck for all the transducers until 20 Nm
- ✓ Speed rotation up to 5000 rpm
- ✓ Allowable overload until 150% of full scale



Model	Capacity	Sensitivity	Input drive	Output drive	Code
B 2 H	2 Nm +/- 0,004 Nm	1 mV/V	1/4" male hexagonal	1/4" fast hex.chuck	3000118
B 6 H	6 Nm +/- 0,012 Nm	1 mV/V	1/4" male hexagonal	1/4" fast hex.chuck	3000125
B 12 H	12 Nm +/- 0,024 Nm	2 mV/V	1/4" male hexagonal	1/4" fast hex.chuck	3000357
B 20 H	20 Nm +/- 0,04 Nm	2 mV/V	1/4" male hexagonal	1/4" fast hex.chuck	3000129
B 25 Q	25 Nm +/- 0,05 Nm	2 mV/V	3/8" female square	3/8" male square	3000130
B 63 Q	63 Nm +/- 0,12 Nm	2 mV/V	3/8" female square	3/8" male square	3000131
B 160 Q	160 Nm +/- 0,32 Nm	2 mV/V	1/2" female square	1/2" male square	3000132
B 500 Q	500 Nm +/- 1 Nm	2 mV/V	3/4" female square	3/4" male square	3000358
Connection cable length 2,5m (Not delivered with the transducer. To be ordered separately).					3080047

Additional technical datas: maximum rotation speed: 3000 rpm. Clockwise and counterclockwise measurement. Other torque ranges and torque & angle version available on inquiry. The B transducers are not suitable with impact and impulse wrenches.

BRUSHLESS DYNAMIC MEASUREMENT

Ideal for permanent torque control along the assembly line

SPEC MEMORY TORQUE READOUTS FOR BRUSHLESS TRANSDUCERS

The SPEC torque readouts are easy to use and are equipped with a high accurate electronics

- ✓ Easy to use scroll menu
- ✓ 500 data FIFO memory capacity
- ✓ RS232 output
- ✓ Mini/ok/maxi torque limits with sound alarm
- ✓ Suitable with impulse tools
- ✓ Peak/first peak/track signals
- ✓ Cp, cpk statistics, average, standard deviation (TA SB SMART model only)



Model	Accuracy	Power supply	Battery autonomy	Statistics	Impulse tool	Code
TA SB	+/- 0,05%	220 V and battery	8 h 00	Without	Yes	7500253
TA SB SMART	+/- 0,05%	220 V and battery	8 h 00	With	Yes	7500255

Delivered with a carrying case, a battery charger and a control certificate. The connection cable is not included and must be ordered separately.

SPEC BRUSHLESS ROTARY TORQUE TRANSDUCERS

The solution to fit your requirements of accuracy level, life time, reduced maintaining costs and fast application.

The SPEC brushless rotary torque transducers are equipped with a brushless signal transmission and power supply system, and with an integrated amplifier. You have at your disposal a complete range adapted to intensive utilisations for any kind of fastening tools.



- ✓ Suitable with impulse tools
- ✓ Maximum rotation speed : 12000 rpm
- ✓ +/- 5 volts analog output
- ✓ Allowable overload until 150%

Model	Capacity	Output signal	Input drive	Output drive	Code
SB 2 H	2 Nm +/- 0,004 Nm	+/- 5V	1/4" male hexagonal	1/4" fast hex chuck	7500012
SB 6 H	6 Nm +/- 0,012 Nm	+/- 5V	1/4" male hexagonal	1/4" fast hex chuck	7500055
SB 12 H	12 Nm +/- 0,024 Nm	+/- 5V	1/4" male hexagonal	1/4" fast hex chuck	7500056
SB 18 H	18 Nm +/- 0,036 Nm	+/- 5V	1/4" male hexagonal	1/4" fast hex chuck	7500013
SB 50 Q	50 Nm +/- 0,1 Nm	+/- 5V	3/8" female square	3/8" male square	7500014
SB 150 Q	150 Nm +/- 0,3 Nm	+/- 5V	3/8" female square	3/8" male square	7500015
SB 250 Q	250 Nm +/- 0,5 Nm	+/- 5V	3/4" female square	3/4" male square	7500016
SB 500 Q	500 Nm +/- 1 Nm	+/- 5V	3/4" female square	3/4" male square	7500059
Connection cable length 2m (Not delivered with the transducer. To be ordered separately).					7500111

Other torque ranges and torque & angle version available on inquiry.

Your local agent:

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