

Torque Screwdriver Tester (TST) - Series 2

The TST combines simplicity with up to date technology to provide a high quality instrument for the testing and calibration of low capacity torque tools. Featuring an internal transducer complete with Joint Simulation Rundown Assembly, the TST is available in 3 torque ranges, 0.04 to 2 N.m, 0.5 to 10 N.m and 1.25 to 25 N.m. Class I system accuracy over its Primary range (±0.5% of reading from 20% to 100% of full scale).

What makes the TST genuinely versatile is the interface for an external transducer. This interface, accessed by a 2 way switch in the TST, allows the connection of any transducer from Norbar's "SMART" range and most mV/V calibrated transducers from Norbar or other manufacturers.

Norbar is UKAS accredited for the calibration of electrical torque indicator displays and the TST is supplied with a calibration certificate. This ensures that each element of the system is fully traceable and interchangeable. The TST is also supplied with a UKAS torque calibration certificate for the complete system i.e. display and internal transducer.



TST in standard carry case,

Measurement and Calibration

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- Pictorial display panel for easy mode selection.
- Limit detection with low, pass and fail indication. Up to 12 target values can be set.
- Digital limit state output for control of external tools.
- Operation from fast charge internal battery pack (maximum time of 3 hours 20 minutes for full charge) or a.c. supply (90 to 264 Volts).
- RS-232-C serial data interface for connection to a printer or PC. Continuous RS 232 output when used in track mode (up to 11 readings per sec).
- Pulse count feature in Impulse mode and Clutch Tool mode.
- "SMART" intelligence for transducer recognition.
- Memory for calibration details of 20 non-"SMART" mV/V calibrated transducers.
- Analogue output allows the instrument to be used as part of a process control system for performance analysis.
- User selectable frequency response for each mode of operation.
- All user selectable features have password protection. The instrument can be issued to users with only the required modes of operation and units of measure enabled. This feature can virtually eliminate operator induced errors.
- Supplied in carry case.
- All common measurement units for torque are included plus users can configure their own units to interface with non torque transducers.

TST

Model	Part No.	Range	
		N.m	lbf.in
TST 2	43212	0.04-2	0.4-20
TST 10	43213	0.5-10	5-100
TST 25	43214	1.25-25	12.5-250

TST Ancillaries

Part No.	Description		
60216.200	TST to 10 Way lead, for Norbar Rotary Transducers		
60217.200	TST to 6 Way lead, for Norbar Static & Annular Transducers		
TST.CCW	TST Counter Clockwise Calibration		
50539*	Joint Simulation Rundown Assembly 2 N.m		
50540*	Joint Simulation Rundown Assembly 10 N.m		
50541*	Joint Simulation Rundown Assembly 25 N.m		

*The TST comes with a Joint Simulation Rundown Assembly as standard.

These Part No.s are for replacement or additional fixtures only.

Accuracy when used with external transducer port:

Input Voltage	Equivalent torque	Accuracy	Calibration uncertainty*
@0.5 mV	5% of full scale	±0.1% of reading	±0.13%
@1.0 mV	10% of full scale	±0.05% of reading	±0.08%
@2.0 to 18.9 mV	20% to 110% full scale	$\pm 0.05\%$ of reading	±0.06%

*Using a coverage factor of k=2, to give a confidence level of approximately 95%.

Resolution:5 digits for all Norbar transducers.Weight:2.2 kg (4.8 lb).Dimensions:160 mm deep x 288 mm wide x 72 mm high.







Limit Setting Screen

