

## Torque Tool Tester (TTT) - Series 3

The TTT shares all of the extensive features of the TST except that it has no internal transducer. Instead, the TTT offers not one but three external transducer interfaces allowing any three transducers to be simultaneously connected. Selection between the transducers is made by a rotary switch at the back of the instrument case.

Any transducer from Norbar's "SMART" range and most mV/V calibrated transducers from Norbar or other manufacturers can be connected to the TTT. The "SMART" feature means that once a transducer has been connected, the instrument will automatically recognise calibration details such as mV/V output, serial number and capacity.

Norbar is UKAS accredited for the calibration of electrical torque indicator displays and the TTT is supplied with a calibration certificate. This ensures that each element of the system is fully traceable and interchangeable.



Back panel



TTT in standard carry case.  
STB1000 Transducer also shown.

### Torque Tool Tester (TTT) - Series 3

- 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.



### TTT

Part No.	Description
43228	Torque Tool Tester

### TTT Ancillaries

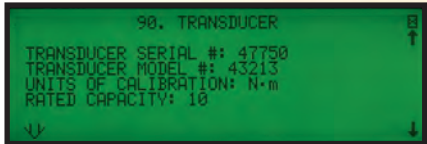
Part No.	Description
60216.200	TTT to 10 Way lead, for Norbar Rotary Transducers
60217.200	TTT to 6 Way lead, for Norbar Static & Annular Transducers
TTT.CCW	TTT Counter Clockwise Calibration

### Accuracy:

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	±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: 1 Kg (2.2 lb).  
 Dimensions: 150 mm high x 200 mm wide x 180 mm deep.



Details of connected transducer displayed by pressing # key.



Language setting