

TTR Series Torque Tool Tester

The TTR Digital Torque Tool Tester is a simple operation test instrument for quickly checking torque tool performance with $\pm 0.5\%$ reading accuracy. The TTR Series provides an exceptional $\pm 0.5\%$ of reading accuracy for measuring torque on various products including torque wrenches, manual screwdrivers, electric screwdrivers, pneumatic screwdrivers and other torque controlled power tools.

The TTR's provide long operation life and power flexibility with the ability to work from the internal rechargeable battery or included AC adapter. The TT's have four modes of operation: Track for live readings, Peak which records the highest level over a test, First Peak which records the first peak reading over the test and Track/Peak which shows both the live readings as well as the peak reading recorded.

The analog bar graph on the backlit LCD aids users by providing the resultant torque's current position compared to the full scale range. CW/CCW icons assist users with ensuring proper test set-up. Pass/fail LED's (HI/OK/LO) produce live test feedback allowing instant determination of the results.

Every tester comes standard with USB and RS-232 output. The TTR's software enables the uploading of data and the additional statistical analysis with its auto-calculation of the selected values.

These excellent features make the TTR Torque Tool Testers a valuable and versatile addition to the production and quality control departments.

Features

- Strong, light-weight, compact aluminum enclosure allows portability and usage in any shop environment.
- Flexible four modes of operation: Track, Peak, First Peak & Track/Peak
- High-resolution, backlit graphical display with analog bar graph and CW/CCW direction indication provides fast graphical interpretation of tool response.
- Pass-Fail LED light indicators enable quick determination of tool performance acceptance.
- Units come standard with USB or RS232 communication output for data upload.
- 500 memory record storage plus software provides easy data transfer.
- $\pm 0.5\%$ of reading provides an excellent standard for checking tools on ranges up to 18 ft-lb (25 N-m)
- Operation via the rechargeable battery or the AC adapter.
- Included rundown adapter for power tool testing
- Calibration certificate with data guarantees performance upon purchase.



TTR Shown Testing Torque Wrench



TTR with Included Accessories and Carry Case

TTR Series Specifications

Accuracy	± 0.5 % of reading over 20 - 100% of capacity (Includes Creep, Non-linearity & Temperature Shift at zero load)
Units of Measure	N-mm, N-cm, N-m, in-lb, ft-lb, kg-cm, kg-m (depending on range)
Measure Modes	Track, Peak, First-Peak, Track/Peak
Tool Socket Size	Dual 3/8", 20 mm female square
Overload Protection	120% of Full Scale
Max. Mounting Torque	150% of Full Scale
Sampling Rate	1000 Hz
Peak Capture Rate	0.10 S
Display	1.75 x 1.125" (44.4 x 28.6 mm) dot matrix backlit LCD
Operating Temperature	60 - 95 °F (15 - 35 °C)
Storage Temperature	5 - 149 °F (-15 to 65 °C)
Humidity Limit	Maximum 70% rH.
Power	Rechargeable battery or 100 -240, 50-60 Hz universal AC adapter/charger
Charging Time	Approx. 14-16 Hours for Full Charge
Battery Operation	12 Hours
Output	USB 8 data bits Baud rate: 38400
Communication Ports	Both RS232 & USB simultaneous output
Size	4 x 8 x 2" (100 x 200 x 50 mm); TTR-25: 4 x 9.8 x 2.3" (100 x 250 x 58 mm)
Product Weight	4.70 lb (2.13 kg); TTR-25: 7.65 lb (3.47 kg)
Package Weight	9.10 lb (4.13 kg); TTR-25: 12.15 lb (5.51 kg)
Warranty	1 year
Included Accessories	USB cable, charger adapter, cal. cert., rundown adapter, 1/4" male Hex to 3/8" square driver adapter.
Optional Accessories	RS-232 cable, Rundown adapter springs, Rundown adapters Note: Software available for free at www.shimpoint.com

Ordering Details

Range by unit (Resolution)							
Model	N-mm	N-cm	N-m	kgf-cm	kgf-m	in-lbf	ft-lbf
TTR-0.5	500 (0.1)	50 (0.01)	0.5 (0.0001)	5.099 (0.001)	0.0509 (0.0001)	4.425 (0.001)	0.3688 (0.0001)
TTR-1	1000 (0.2)	100 (0.02)	1 (0.0002)	10.2 (0.002)	0.1019 (0.0001)	8.852 (0.002)	0.7374 (0.0002)
TTR-5	5000 (1)	500 (0.1)	5 (0.001)	50.99 (0.01)	0.5098 (0.0001)	44.25 (0.01)	3.688 (0.001)
TTR-10	10000 (2)	1000 (0.2)	10 (0.002)	102 (0.02)	1.0196 (0.0002)	88.52 (0.02)	7.374 (0.002)
TTR-25	25000 (5)	2500 (0.5)	25 (0.005)	254.9 (0.05)	2.549 (0.0005)	221.3 (0.05)	18.435 (0.005)

Accessories

TTRNA-1	Rundown adapter. 8.85 in-lbf (1 N-m) 1/4" hex connection
TTRNA-5	Rundown adapter. 44.25 in-lbf (5 N-m) 1/4" hex connection
TTRNA-10	Rundown adapter. 88.5 in-lbf (10 N-m) 1/4" hex connection
TTRNA-25	Rundown adapter. 221 in-lbf (25 N-m) 1/4" hex connection
TT-BP	Mounting base plate for TT. (Note: TT-25 comes standard with base plate.)

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