Data Sheet

32-1155 REV 1

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Torque Tool Testers Series TT02

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Series TT02 Torque Tool Testers present a simple and accurate solution for testing manual, electric, and pneumatic torque screwdrivers, wrenches, and other tools. These testers are compact and rugged, suitable for production environments. A universal 3/8" square receptacle accepts common bits and attachments. The TT02 captures peak torque in both measurement directions, and also calculates 1st and 2nd peaks, useful for click-type tools.

A blazingly fast sampling rate of 7,000 Hz and accuracy of $\pm 0.3\%$ produce reliable and consistent test results. The TT02 includes a range of sophisticated productivity-enhancing features, including USB, RS-232, Mitutoyo, and analog outputs, automatic data output/zeroing/data storage upon tool slip or click, memory storage for 1,000 readings, pass/fail indicators and outputs, and more. Password protection is provided to prevent unauthorized changes to settings and calibration.

Series TT02 testers include MESUR[™] Lite data acquisition software. MESUR[™] Lite tabulates continuous or single point data. Data stored in the TT02's memory can also be downloaded in bulk. One-click export to Excel allows for further data manipulation.

Note: Not for use with impact tools.



Features

- First / second peak capture for CW and CCW directions
- 3/8" square receptacle accommodates common bits and attachments
- High-speed 7,000 Hz sampling rate accurately captures peak torque values
- 1,000-point data memory with statistics and outputs
- USB, RS-232, Mitutoyo, and analog outputs

MESUR Lite data acquisition software is included with Series TT02 testers

- Break detection: automatic output, data storage, and zeroing upon tool click/slip automates testing processes
- Programmable set point indicators and outputs for pass/ fail determination
- Password protection prevents unauthorized changes
- 5 selectable units of measurement
- MESUR[™] Lite data collection software included

Controls & Indicators

MARK - 10





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Optional Items





Helps capture readings for electric and pneumatoc tools from 0 to 50 lbFin [0 to 5.7 Nm]





ST001 Bench mounting kit Mounts the TT02 securely to a bench for horizontal orientation.

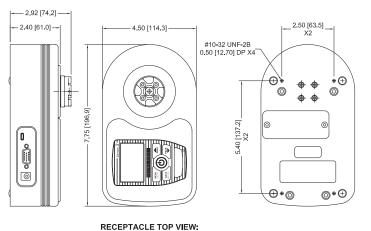


ST002 **Carrying case** Provides storage space for the TT02 tester, rundown fixtures, bench mounting kit, AC adapter, and accessories.

Specifications

Accuracy:	$\pm 0.3\%$ of full scale				
Sampling Rate:	7,000 Hz				
Power:	AC or rechargeable battery. Multi-step low battery indicator is displayed, tester shuts off automatically when power is too low.				
Battery life:	Backlight on: up to 7 hours of continuous use Backlight off: up to 24 hours of continuous use				
Units:	ozFin, IbFin, IbFft, Nm, Ncm				
Outputs:	USB / RS-232: Configurable up to 115,200 baud. Mitutoyo: Serial BCD suitable for all Mitutoyo SPC-compatible devices. Analog: ±1 VCD, ±0.25% of full scale at capacity. General purpose: Three open drain outputs, one input. Set points: Three open drain lines.				
Configurable settings:	1st/2nd peak, digital filters, outputs, automatic shutoff, default settings, key tones, backlight, audio alarms, passwords, calibration				
Safe overload:	150% of full scale (display shows "OVER" at 110% and above)				
Weight:	5.8 lb [2.6 kg]				
Included items:	1/4" hex to 3/8" square adapter, universal voltage AC adapter, battery, quick- start guide, USB cable, resource CD (USB driver, MESUR™ Lite software, MESUR™gauge DEMO software, and user's guide), and NIST-traceable certificate of calibration (cert with data is available for an additional charge).				
Environmental requirements:	40 - 100°F, max. 96% humidity, non-condensating				
Warranty:	3 years (see individual statement for further details)				

Dimensions in [mm]



Ø1.49 [37.8] 0.375.50 , [20.(787 0.394 [10.00] X2

Capacity x Resolution

Model No.	ozFin	lbFin	lbFft	Ncm	Nm
MTT02-12	192 x 0.1	12 x 0.005	1 x 0.0005	135 x 0.1	1.35 x 0.001
MTT02-50	800 x 0.5	50 x 0.02	4 x 0.002	570 x 0.5	5.7 x 0.005
MTT02-100	1600 x 1	100 x 0.05	8 x 0.005	1150 x 0.5	11.5 x 0.005

All models include 110V AC adapters. Add suffix 'E' for euro plug (220V), 'U' for UK plug (220V), or 'A' for Australian plug (220V).

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Ex: MTT02-12E, MTT02-50U, MTT02-100A







Specifications subject to change without prior notice