# Data Sheet

#### 32-1155 REV 4



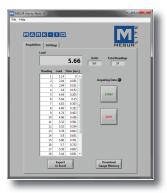
Series TT02 Torque Tool Testers present a simple and accurate solution for testing manual, electric, and pneumatic torque screwdrivers, wrenches, and other tools. These testers are compact and rugged, suitable for production environments. A universal 3/8" square receptacle accepts common bits and attachments.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

Torque Tool Testers Series TT02

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<sup>™</sup> Lite data acquisition software. MESUR<sup>™</sup> 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<sup>™</sup> Lite data collection software included

## Controls & Indicators

MARK-10







Page 1 of 2

# **Data Sheet**

# Torque Tool Testers Series TT02

32-1055 REV 4

### Page 2 of 2

## **Optional Items**



#### AC1066-1 & AC1066-2 **Rundown fixtures**

Provide accurate and consistent torque measurements for electric and pneumatic tools. Select AC1066-1 to simulate a soft joint with gradual torque buildup or AC1066-2 to simulate a hard joint with faster torque buildup. Integrated 3/8" square drive.





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

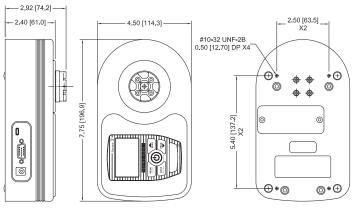


**ST002 Carrying case** Provides storage space for the TT02 tester, rundown fixtures, bench mounting kit, AC adapter, and accessories.

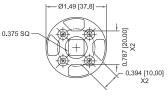
## **Specifications**

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, kgFcm, Nm, Ncm
Outputs:	USB / RS-232: Configurable up to 115,200 baud. Mitutoyo: Serial BCD suitable for all Mitutoyo SPC-compatible devices. Analog: ±1 VDC, ±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]



### RECEPTACLE TOP VIEW:



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

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



Capacity x Resolution

ozFin

192 x 0.1

400 x 0.2

800 x 0.5

1600 x 1

lbFin

12 x 0.005

25 x 0.01

50 x 0.02

100 x 0.05

kgFcm

14 x 0.01

28 x 0.02

58 x 0.05

116 x 0.1

Ncm

135 x 0.1

290 x 0.2

570 x 0.5

1150 x 0.5

Nm

1.35 x 0.001

2.9 x 0.002

5.7 x 0.005

11.5 x 0.005

Model No.

MTT02-12

MTT02-25

MTT02-50

MTT02-100

Mark-10 Corporation Www.mark-10.com info@mark-10.com Toll-free: 888-MARK-TEN 
Tel: 631-842-9200 
Fax: 631-842-9201



Specifications subject to change without prior notice