



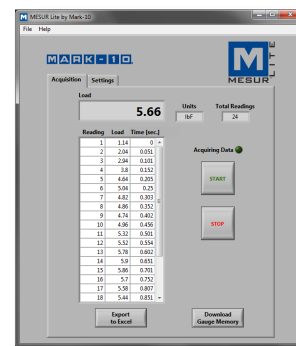
Series TT05 universal torque testers can be used for a range of applications up to 100 lbFin [11.5 Nm]. The stainless steel loading surface features a matrix of threaded holes, ideal for accommodating specialized fixtures and attachments. The testers' rugged design and simple, intuitive operation allow for use in laboratory and production environments.

Accuracy of  $\pm 0.3\%$  and blazingly fast sampling rate of 7,000 Hz ensure reliable and consistent test results, even in quick-action applications. Password protection is provided to prevent unauthorized changes to settings and calibration.

The TT05 includes a range of sophisticated productivity-enhancing features, including USB, RS-232, Mitutoyo, and analog outputs, automatic data output and zeroing upon sample break, memory storage for 1,000 readings, pass/fail indicators and outputs, and more. First / second peak torque detection is useful for torque tool testing, tamper evident closure testing, and other applications.

Series TT05 testers include MESUR<sup>®</sup> Lite data acquisition software. MESUR<sup>®</sup> Lite tabulates continuous or single point data. Data stored in the TT05's memory can also be downloaded in bulk. One-click export to Excel allows for further data manipulation.

MESUR<sup>®</sup> Lite data acquisition software is included with Series TT05 testers



## Features

- Stainless steel loading plate with threaded holes accommodates fixtures and attachments
- USB, RS-232, Mitutoyo, and analog outputs
- Automatic output, data storage, and zeroing upon sample break helps automate testing processes
- First / second peak detection for torque tool testing, bottle cap testing, and other applications
- 1,000-point data memory with statistics and outputs
- Password protection prevents unauthorized changes
- High-speed 7,000 Hz sampling rate accurately captures peak torque values
- Programmable set point indicators and outputs for pass/fail determination
- MESUR<sup>®</sup> Lite data collection software included

## Controls & Indicators

Set points

Current or peak reading

Set point (pass/fail) indicators

Battery indicator

Memory storage for 1000 readings (auto-save also possible)

Access the tester's settings menu via an easy-to-use interface

One-push data output to a PC, printer, or other device (auto-output also possible)

Clockwise/counter-clockwise indicator

Peak readings (CW/CCW or 1st/2nd peaks peaks)

Measurement mode

Unit of measurement

Analog load bar w/set point markers

Zero the reading to begin a new test (auto-zero also possible)

Toggle between real time, peak, and 1st peak/2nd peak display modes

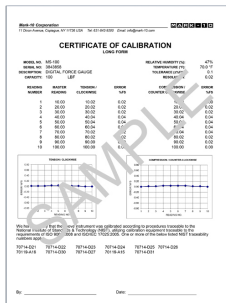
## Optional Items



### CT002

#### Carrying case

Provides storage space for the TT05 tester, gripping jaws, AC adapter, and accessories.



### CERT

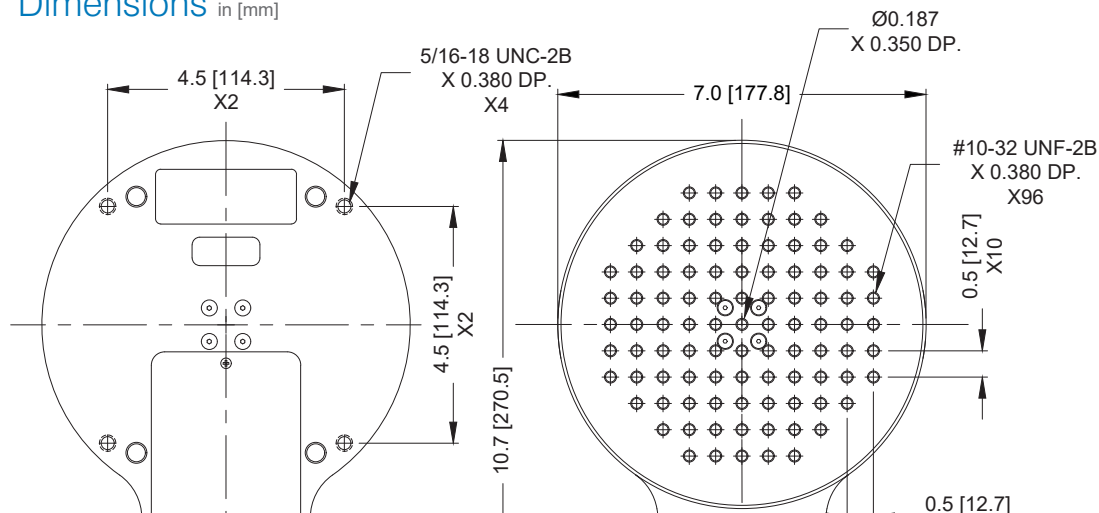
#### Calibration certificate w/data

Includes 10 data points in each measurement direction (short form certificate without data is included)

## Specifications

<b>Accuracy:</b>	±0.3% of full scale
<b>Sampling Rate:</b>	7,000 Hz
<b>Power:</b>	AC adapter: 100-240VAC, 50-60 Hz, 0.3 A Battery: Rechargeable 8.4V NiMH Low battery indicator appears when battery level is low, and gauge powers off automatically when power reaches critical stage.
<b>Battery life:</b>	<b>Backlight on:</b> up to 7 hours of continuous use <b>Backlight off:</b> up to 24 hours of continuous use
<b>Units:</b>	ozFin, lbFin, kgFcm, Nm, Ncm
<b>Outputs:</b>	<b>USB / RS-232:</b> Configurable up to 115,200 baud. <b>Mitutoyo:</b> Serial BCD suitable for all Mitutoyo SPC-compatible devices. <b>Analog:</b> ±1 VDC, ±0.25% of full scale at capacity. <b>General purpose:</b> Three open drain outputs, one input. <b>Set points:</b> Three open drain lines.
<b>Safe overload:</b>	150% of full scale (display shows "OVER" at 110% and above)
<b>Weight:</b>	10.9 lb [4.9 kg]
<b>Environmental requirements:</b>	40 - 100°F, max. 96% humidity, non-condensing
<b>Warranty:</b>	3 years (see individual statement for further details)

## Dimensions in [mm]



Mark-10 Corporation ■ [www.mark-10.com](http://www.mark-10.com) ■ [info@mark-10.com](mailto:info@mark-10.com)  
Toll-free: 888-MARK-TEN ■ Tel: 631-842-9200 ■ Fax: 631-842-9201



## In The Box

Series TT05 torque testers are shipped as shown at right, and include the following accessories:

- (1) USB cable
- (1) AC adapter
- (1) Battery
- (1) Certificate of calibration without data (data is optional)



## Capacity x Resolution

Model No.	lbFin	ozFin	kgFcm	Ncm	Nm
MTT05-12	12 x 0.005	192 x 0.1	14 x 0.01	135 x 0.1	1.35 x 0.001
MTT05-25	25 x 0.01	400 x 0.2	28 x 0.02	290 x 0.2	2.9 x 0.002
MTT05-50	50 x 0.02	800 x 0.5	58 x 0.05	570 x 0.5	5.7 x 0.005
MTT05-100	100 x 0.05	1600 x 1	116 x 0.1	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).

Ex: MTT05-12E, MTT05-25U, MTT05-50A