



Series TT01

Cap Torque Testers

Series TT01 cap torque testers provide closure manufacturers, bottlers, and food and beverage companies an accurate and simple way to measure application and removal torques. Adjustable posts grip a broad range of container shapes and sizes, while sets of optional jaws are available as an alternative gripping methods. Peak torque readings are always shown on the large, backlit graphic display.

Features:

- **USB, RS-232, Mitutoyo, and analog outputs**
- **Data memory**
1,000-point data memory with statistics (min, max, mean, standard deviation), and outputs.
- **Set point indicators with outputs**
Convenient for pass/fail testing.
- **Automatic data output / save / zero**
Upon peak torque detection.
- **1st / 2nd peak detection**
For slip and breakaway torques in tamper-evident closures.



Series TT02

Torque Tool Testers

Series TT02 torque tool testers present a simple yet accurate solution for testing torque screwdrivers, wrenches, and other tools. The TT02 features a solid aluminum housing, making it rugged enough for many years of service in production or laboratory use, while a universal receptacle with square drive and grooves accepts common bits and attachments. 1st / 2nd peak detection is provided for click-type tools.

Features:

- **USB, RS-232, Mitutoyo, and analog outputs**
- **Data memory**
1,000-point data memory with statistics (min, max, mean, standard deviation), and outputs.
- **Set point indicators with outputs**
Convenient for pass/fail testing.
- **Automatic data output / save / zero**
Upon peak torque detection.
- **1st / 2nd peak detection**
For slip and breakaway torques in tamper-evident closures.



Specifications



	TT01	TT05	TT02	TT03
Accuracy (% of full scale)	±0.3%	±0.3%	±0.3%	±0.5%
Password protection	Yes			No
Sampling rate	7,000 Hz			2,000 Hz
Resolution	1/1,000			
Outputs	USB, RS-232 Mitutoyo, Analog			USB
USB / RS-232	Configurable up to 115,200 baud			
Mitutoyo (Digimatic)	Serial BCD suitable for all Mitutoyo SPC-compatible devices			N/A
Analog	±1 VDC, ±2% FS. + for compression / CW, - for tension / CCW			N/A
General purpose I/O	Three open drain outputs, one input			N/A
Set point	Yes, three open drain lines			No
MESUR Lite software included	Yes			
Communication with MESUR gauge and MESUR Lite software	Single point or continuous data, send from gauge or request from software			
Data memory	1,000 readings, with output			No
Data memory deletion	Individual data points, or clear all			N/A
Statistics calculations	Max, min, mean, std. dev., number of readings, with output			N/A
Analog load bar graph shown on display	Yes			
Keypad password protection	Yes, for calibration and keys			No
Peak readings calculated	Yes			
Break detection*	Yes			No
1st / 2nd peak detection*	Yes			No
Programmable audible tones	Yes			
No. of units of measurement	5			3
Battery life (with backlight on/off)	Backlight on: up to 7 hours of continuous use, Backlight off: up to 24 hours of continuous use			
Safe overload	150% of full scale (display shows "OVER" at 110% and above)			
Weight (lb [kg])	8.4 [3.8]	10.9 [4.9]	5.8 [2.6]	1.8 [0.8]
Included items	1/4" hex to 3/8" square adapter (TT02 Only), carrying case (TT03 only) universal voltage AC adapter, battery, quick-start guide, and certificate of calibration. Download free MESUR Lite or MESUR Gauge demo period at mark-10.com/software .			

* With configurable automatic data output, data storage, and zero function upon detection of peak value(s).



Ordering Information

Model No.		Capacity x Resolution					
		ozFin	lbFin	kgFcm	kgFmm	Ncm	Nm
TT01	MTT01-12	192 x 0.1	12 x 0.005	14 x 0.01	-	135 x 0.1	1.35 x 0.001
	MTT01-25	400 x 0.2	25 x 0.01	28 x 0.02	-	290 x 0.2	2.9 x 0.002
	MTT01-50	800 x 0.5	50 x 0.02	58 x 0.05	-	570 x 0.5	5.7 x 0.005
	MTT01-100	1600 x 1	100 x 0.05	116 x 0.1	-	1150 x 1	11.5 x 0.01
TT02	MTT02-12	192 x 0.1	12 x 0.005	14 x 0.01	-	135 x 0.1	1.35 x 0.001
	MTT02-25	400 x 0.2	25 x 0.01	28 x 0.02	-	290 x 0.2	2.9 x 0.002
	MTT02-50	800 x 0.5	50 x 0.02	58 x 0.05	-	570 x 0.5	5.7 x 0.005
	MTT02-100	1600 x 1	100 x 0.05	116 x 0.1	-	1150 x 1	11.5 x 0.01
TT03	MTT03-10Z	10 x 0.01	-	-	7 x 0.005	7 x 0.005	-
	MTT03-20Z	20 x 0.02	-	-	14 x 0.01	14 x 0.01	-
	MTT03-50Z	50 x 0.05	-	-	36 x 0.05	36 x 0.05	-
	MTT03-12	192 x 0.2	12 x 0.01	-	-	135 x 0.1	-
	MTT03-50	800 x 1	50 x 0.05	-	-	570 x 0.5	-
	MTT03-100	1600 x 2	100 x 0.1	-	-	1150 x 1	-
TT05	MTT05-12	192 x 0.1	12 x 0.005	14 x 0.01	-	135 x 0.1	1.35 x 0.001
	MTT05-25	400 x 0.2	25 x 0.01	28 x 0.02	-	290 x 0.2	2.9 x 0.002
	MTT05-50	800 x 0.5	50 x 0.02	58 x 0.05	-	570 x 0.5	5.7 x 0.005
	MTT05-100	1600 x 1	100 x 0.05	58 x 0.05	-	1150 x 1	11.5 x 0.01

All models include 110V AC adapters

Add suffix 'E' for euro plug (220V), 'U' for UK plug (220V) or 'A' for Australian plug (220V)

Example: MTT01-50E, MTT02-100U, MTT03-50ZA

