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TORQUE

Versatorq® Torque Metering/Data Acquisition System

The Versatorq system can be used for any job requiring repetitive torque applications or regular inspection of fastener torque. This system can also be used to verify pneumatic and mechanical torque wrench accuracy. Peak torque can be captured by using a rotary sensor with a

- **Versatile** – battery operated and lightweight, with available ranges from 2 in. oz. to 20 in. oz. to 150 ft. lb. to 1,500 ft. lb. and 7 units of measure: in. oz., in. lb., ft. lb., Nsm, dsNm, kgm, and kgcm. The Versatorq system can be used with sockets, extensions, universal joints, ratcheting drivers or any of these combined
- **Data Aquisition** – store and recall up to 3,500 readings. An internal memory backup battery retains setup and last memory data for up to 10 years
- **Track or Peak Mode** – track mode displays applied torque value and peak mode displays highest torque value
- **Easily Calibrated** – customer calibration supports ISO9000. Instructions for step by step calibration provided in the users manual
- **Smart Sensors** – built in EEPROM memory chip stores sensor identification and calibration factors. Factory calibrated, a sensor retains its accuracy with all Versatorq meters; just plug in the desired sensor. Periodic recalibration is necessary

VERSATORQ
Torque Acquistion Meter
Includes VERSACHARGE1
charger and PB57A case.



Sensors sold separately.



Versameter

Electronic Torque Acquistion Meter

VERSAMETER

Performs most of the same functions as the Versatorq Torque Acquisition Meter. Will not perform the data storage/recall, statistical analysis and histogram functions and does not offer the serial output port feature

Versatorq System Accessories

Stock No.	Description
VERSACHARGE1	Power Pack, 120VAC to 9VDC
VERSACHARGE2	Power Pack, 220VAC to 9VDC (Europe)
VERSACHARGE3	220VAC to 9VDC Power Pack / Charger (Australia / United Kingdom)
VERSAPHONE	Head Phones
VERSACABLE	RS-232 Serial Printer Cable
VERSACABLE2	PC Interface Cable
PB57A	Carrying Case



VERSA2S100

non-impact power tool operating at less than 1,000 RPM and being driven into a soft joint. Inspectors can check critical fastener torque and record data for quality audits. Perfect for process quality control. The Versatorq system can internally perform statistical analysis, including histograms, and print to a serial printer.

- **120VAC/220VAC, 60 Hz Adaptor** – rechargeable battery and belt clip allow you to take it to the task or use it at the bench with the optional table stand and AC adaptor
- **PC Statistical Analysis Output** – download histogram, minimum and maximum reading, mean, sigma N, sigma, Cp, Cpk, % error and number of readings under and over tolerance
- **Serial Port Interface with Computer or Printer** – true RS-232 communications port for downloading to computer or serial printer or configurable to MITUTOYO statistical printer protocol
- **Visual and Audio Cues** – analog bar graph at top of display provides a live indication of applied torque. An OVER warning flag comes on to indicate that maximum sensor range has been exceeded. Green MIN LED indicates lower tolerance has been achieved, and Red MAX LED indicates upper tolerance has been exceeded. Audio alarm produces a distinctive 2 kHz tone. Includes an audio output jack for optional headphones in a noisy environment

Versatorq1®/Versameter® System Specifications

Specifications	Description
VERSATORQ	120VAC Charger, and Carrying Case.
VERSATORQ1	Basic Torque Acquisition Meter
Modes - VERSAMETER	TRACK, PEAK HOLD
Display	4 digit with alpha and numeric function flags
Display Capacity*	+/- 4 digits, 8,000 counts
Accuracy	±1% of Reading (10 to 100% of Sensor Range) (+/- 2% with VERSA1S10 and VERSA1S20 Sensors)
Push-Button Keypad	MIN/MAX Alarm, ZERO TARE, SET-UP, UNITS, STORE/RECALL/CLEAR, SEND, STATISTICS, ENTER
Units Of Measure	in. oz., in. lb., ft. lb., N•m, dN•m, kg•m, kg•cm
Operating Temperature	5°C to 42°C (40°F to 110°F)
Storage Temperature	-10°C to 50°C (-2°F to 12°F)
Humidity	Up to 90%, non-condensing
Dimensions	3" W, 2.5" H (3" with belt clip), 6" D
Weight	1 lb.
Charge Life (full charge to shutoff)	20 hours continuous
Battery Charger	120VAC or 220VAC, 50-60 Hz
Data Storage/Recall	3,500 measurements
Battery Charger Output	9VDC, 200mA
Serial Output Port - VERSATORQ1	RS-232 (True), 300-19.2K baud, and Mitutoyo (statistical protocol)
Statistical Analysis - VERSATORQ1	MAX, MIN, Sigma, Cp, Cpk, % Error, -NoGo, +NoGo
Histogram - VERSATORQ1	Lower set limit, upper set limit, 10 divisions

*Versatorq display ignores torque input less than .5% of full scale in track mode and 2.0% of full scale in peak mode.

NOTE: Please reference the Versatorq instruction manual for the sensor ranges and resolutions in different units of torque measurement.

Versatorq Sensors

Stock No.	Square Drive, inches	Range	Sensor Diameter, inches	Sensor Length, inches	Cable Length, inches
VERSA1S20*	1/4	2-20 in. oz.	.5	2.9	48
VERSA1S10*	1/4	1-10 in. lb.	.7	2.9	48
VERSA1S50	1/4	5-50 in. lb.	.9	2.1	48
VERSA1S200	1/4	20-200 in. lb.	.9	2.1	48
VERSA2S100	3/8	10-100 ft. lb.	1.2	2.4	48
VERSA3S250	1/2	25-250 ft. lb.	1.4	2.6	48
VERSA4S600	3/4	60-600 ft. lb.	2.0	3.9	96
VERSA5S1500**	1	150-1,500 ft. lb.	2.4**	4.4	92

*Knurled handles allow for fingertip control.

**Diameter does not include side mounted connector. Heavy duty coiled cord with 4-pin MS-style connector.

TORQUE

Versatest™ Electronic Torque Tester



VERSATEST

The Versatest Indicator is a laboratory grade instrument used for precise, in house torque wrench testing and calibration. High precision torque transducers provide system readings with an accuracy of +/- 0.25% of indicated value. Transducers are available in ranges from 15-200 in. oz. to 200-2,000 ft. lb. and feature a special built in memory chip that identifies the range and maintains the calibration between all Versatest Indicators. Setup and calibration programming is entered via front panel membrane keys. The Versatest can store and recall up to 3,000 different torque/force readings. Statistical analysis stored in memory can be downloaded to a computer or serial printer. A hard wired lithium battery keeps the internal memory and the date/time clock operating for up to 10 years.

Versatest Specifications

Specifications	Description
Display	Large 5.5" x 1.5" backlighted LCD graphics display (240 x 64 dot matrix, 0.67" torque digits character height)
Capacity	5 significant digits +/- 32,000 counts (16 bit A/D)
Sample Rate	2,000 samples per second
Display Rate	5 updates per second
Accuracy*	+/- 0.25% OF READING AT 25° C (with TTC Transducer calibration)
Temperature Drift	+ 0.03% / °C (+0.017% / °F)
Bar Graph	100 segment analog of applied torque scaled to Limits Set value
Units Of Measure	in. oz., in. lb., ft. lb., N•m, dN•m, kg•cm and kg•m
Modes	TRACK, PEAK HOLD, FIRST PEAK, POWER TOOL
Soft Key User Interface	Units, Calibration, Date/Time, Statistics, Hi/Low Limits Set, Data Store, Data Recall, Printer Setup, Zero, Auto/Manual Store/Send/Clear
Select Keys	Increment, Decrement, Shift Left, Shift Right, Enter
Operating Temperature	10 to 32° C (50 to 90° F)
Storage Temperature	-20 to 50° C (-2 to 122° F)
Humidity	85% Relative Humidity @ 21° C (70°F)
Dimensions	10" wide x 4" high x 10.5" deep (including carry handle)
Power Supply	Auto Switching 100VAC-24-VAC, 50/60 Hz, 50 watts
Data Storage/Recall	3,000 Measurements
Statistical Analysis	Max, Min, Range, Mean, Sigma N, Sigma, Cp, Cpk, % Error, -NoGo, +NoGo
Histogram	Lower Set Limit, Upper Set Limit, 10 Divisions
Printer/Computer Serial Output Port	RS232 (True), 300-19.2K Baud
Computer Serial Com Port	RS232 (True), 300-19.2K Baud
Analog Output	+(CW)/-(CCW) 1.8V at Transducer Full Range Linearity, +/-1% of reading
Loader Control Relays	Two, Normally Open, Form A, Rated 12VDC @ 1/2A close contact at 110% CW or CCW or torque/force transducer range

* TTC Transducers used with, but not calibrated to, the Versatest Indicator provide a system accuracy of +/- 0.5% of reading @ 25° C.

Refer to Transducer Chart on page 245 for additional information.

Features:

- Automatic downloading
- RS232C serial port – use with printer or PC
- Data storage/recall (with date/time stamp) holds up to 3,000 measurements
- Real time clock
- Smart transducers
- A… output connect to oscilloscope or X-Y plotter
- External printer can be mounted on top of the Versatest unit
- Re…te foot switch interface for send/print functions
- Four modes TRACK, PEAK HOLD, FIRST PEAK, POWER TOOL

- Statistic Process Control (SPC) built in



VERSATEST600

VERSATEST600 Electronic Torque Metering System. Provides high speed monitoring of static and dynamic torque inputs. Includes the Versatest indicator, VERSA600LDR2 loader, TTC12 transducer, TTC400 4-in-1 transducer and TTC5000-1 4-in-1 adaptor

plate.

VERSA600LDR2 Mechanical Loader. Unit will load dial, micrometer, beam and electronic torque wrenches. Maximum capacity of 600 ft. lb. Use with any TTC series transducer from 15 in. oz. to 600 ft. lb.

Accessories

TTC3421	Mounting Bracket A
TTC3422	Mounting Bracket B
TTC15002	Mounting Bracket C
TTC1121	Serial Printer
TTC501	Connects TTC610 Digital Indicator to PC
TTC502	Connects TTC610 Digital Indicator to printer
TTC75006	Torque Screwdriver Testing Kit

TORQUE

Versatest™ Electronic Torque Tester

Motor Controller on TTC2800 - mounts in this location.





TTC2000

Basic System.
Optional accessories on next page.

- Automatic sensor recognition with TTC series Sm art transducers
- Range: 15 in. oz. to 2,000 ft. lb. (bi-directional)

- Total uncertainty (10% to 100% of range): +/- 0.25% of indicated torque value
- Alpha-numeric 8 digit display
- Memory to 3,000 values
- Includes low profile serial printer
- Date and time stamp for stored values
- Statistical analysis performed on stored data
- Programmable manual or automatic options for clear, store and print functions

- Recall and review of stored torque values
- ModesTRACK, PEAK, FIRST PEAK and POWER TOOL
- Optional angle encoder
- RS232C port is standard
- Analog output is standard
- Full digital circuitry
- 8 torque measurement units: in. oz., in. lb., ft. lb., cN•m, dN•m, N•m, kg•cm and kg•m
- Automatic lock up for transducer protection
- Automatic zero
- Automatic transducer recognition
- Operates on 120VAC or 240VAC

TTC2000/TTC2800 System Specifications

TTC2000 Manual Loader System	**Torque/Force Display**	Eight digit, alpha-numeric, super bright red LED, 0.55 inch character height
	Capacity	8 digits +/- 32,000 counts (16 bit A/D)
	Accuracy*	+/- 0.25% of reading at 25° C (with TTC Transducer calibration)
	Temperature Drift	+ 0.03% / C (+ 0.017% / F)
	Units Of Measure	TORQUE: ft. lb., in. lb., in. oz., N•m, dN•m, kg•cm and kg•cm; FORCE: lbf, ozf, N, dN, kp and gf
	Maximum Range Display	2-line x 16 character 5 x 8 dot-matrix LCD used for MAX. Transducer range, Units, Angle, Calibration, Date/Time, Statistics, Torque/Force or Torque/Angle Limits Set, Data Store/Recall, Printer Set Up
	Modes	Track, Peak Hold, Angle, First Peak, Power Tool
	Operating Temperature	10 to 32° C (50 to 90° F)
	Storage Temperature	-20 to 50° C (-2 to 122° F)
	Humidity	Up to 90%, Non-condensing
	Power Supply	120VAC +/-10%, 50/60Hz @ 3.14A (including motor current)
	Data Storage/Recall	3,000 Measurements
	Statistical Analysis	Max, Min, Range, Mean, SigmaN, Sigma, Cp, Cpk, % Error, -NoGo, +NoGo
	Histogram	Lower Set Limit, Upper Set Limit, 10 Divisions
	Printer/Computer Serial Output Port	RS232 (True), 300-19.2K Baud
	Computer Serial Com Port	RS232 (True), 300-19.2K Baud (Optional)
	Analog Output	+(CW/-(CW) 1.8V at Transducer Full Range Linearity, +/-1% of reading
	Loader Control Relays	Two, Normally Open, Form A, Rated 12DVC @ 1/2A close contact at 110% CW or CCW or torque/force transducer range
	Loader Hand Crank	Input torque 8 ft. lb. Maximum, Output Torque 2,000 ft. lb. Maximum
TTC2800 Motorized Loader System	**Motorized Loader Modes**	Manual; Auto Dial; Auto 1st Peak
	Motorized Loader Power Supply	120VAC +/- 10% Hz @ 3.14A (including motor current); (optional step down transformer for 240VAC operation)

**All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)*

All wrenches and drivers are calibrated per ASME and ISO standards for accuracy, from 20% to 100% of full scale, using NIST traceable equipment.

TTC2000/TTC2800 System Components

	Stock No.	Description	Application
TCC2000 Components	**TTC600**	Mechanical Loader	Applies load to torque wrenches for testing on TTC2000. Includes loader, torque indicator stand, torque pin, protective shield, small transducer adaptor, and power cord. 45" W x 24" D x 9.5" H
	TTC610	Digital Indicator	Torque tester for the TTC2000 System.
	KRL762PY	Roller/Storage Cabinet	Used to mount TTC600/TTC610 (TTC2000) or TTC800/TTC810 (TTC2800) and store accessories. Not available individually
TTC2800 Components	**TTC800**	Motorized Loader	Applies load to torque wrenches for testing on TTC2800 System
	TTC810	Digital Indicator	Torque Tester for the TTC2800 System
	KRL762PY	Roller/Storage Cabinet	Used to mount TTC600/TTC610 (TTC2000) or TTC800/TTC810 (TTC2800) and store accessories. Not available individually

TORQUE

Electronic Torque Tester and Calibrator





TTC8





TTC400

Transducers

All T ies transducers include the correct adaptor for the indicated torque range.

Stock No.	Description	Sq. Drive Size	Range	Bench Top Mounting Bracket
TTC5	Transducer	1/4	15-200 in. oz.	**TTC3421**
TTC6	Transducer	1/4	4-50 in. lb.	**TTC3421**
TTC65	Transducer	1/4	15-150 in. lb.	**TTC3421**
TTC7	Transducer	3/8	30-400 in.lb.	**TTC3421**
TTC8	Transducer	3/8	80-1,000 in. lb.	**TTC3421**
TTC10	Transducer	1/2	10-125 ft. lb.	**TTC3422**
TTC11	Transducer	1/2	20-250 ft. lb.	**TTC3422**
TTC12	Transducer	3/4	60-600 ft. lb.	**TTC3422**
TTC13	Transducer	1	100-1,000 ft. lb.	**TTC15002**
TTC14	Transducer	1	200-2,000 ft. lb.	**TTC15002**
TTC400*	4-in-1 Transducer	1/4 3/8 3/8 1/2	4-50 in. lb. 30-400 in. lb. 80-1,000 in. lb. 20-250 ft. lb.	
TTC5000-1**	4-in-1 Adaptor Plate			

*TTC400 requires the TTC5000-1 adaptor plate when used with the TTC600 manual loader, TTC800 motorized loader and VERSA600LDR.

**Required for TTC400 4-in-1 torque transducer to be used on TTC600/TTC800 loaders.

Calibration Wheels/Arms

Use to calibrate any TTC series transducer. Arms are certified to manufacturer s standards.

TTC500	2.5" Calibration Wheel, 1/4" sq. dr.
TTC1510	5" Calibration Wheel, 1/4" drive (includes 3/8" adaptor)
TTC1520	10" Calibration Butterfly, 1/2" square drive
TTC1540	40" Calibration Arm, 1 1/4" square drive (includes 3/4" adaptor)



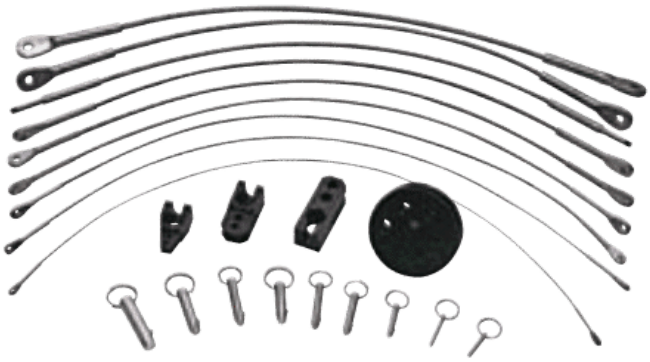
TTC25002

Accessories

Stock No.	Description
TTC501	Connects TTC610 Digital Indicator to PC
TTC502	Connects TTC610 Digital Indicator to printer
TTC25002	Free standing calibration stand with mounting block and hardware for use with TTC2000/TTC2800 Systems and all TTC Series Transducers
TTC75002	Torque Screwdriver Testing Kit
TTC5500-1	Extension Arm (required for wrenches longer than 45")



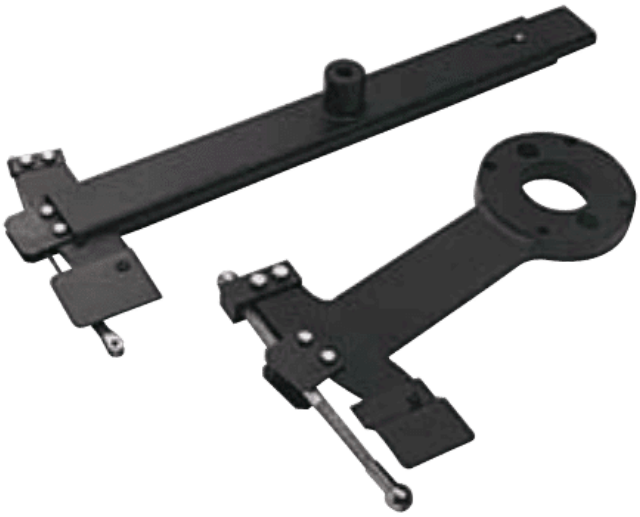
TTC2620



TTC2600



TTC2610



TTC26302

Force Testing Equipment

- Reaction arms, cables, mounting plates and fixtures are available for testing tensiometers plus compression and tension gauges. The TTC600 and TTC800 loaders and TTC series transducers can be configured to deliver compression and tension loads
- The TTC610/TTC810 indicator also provides measurement, display, storage and statistical analysis for FORCE inputs

TTC2600	Tensiometer Testing Kit
TTC2610	Tension Gauge Testing Kit
TTC2620	Compression Gauge Testing Kit
TTC26302	Force Arm Kit (Only one is needed for any Force Testing Kit)

Weight Sets

Use to calibrate any TTC series transducer. All weights are NIST (NBS) traceable.

TTC3200	Weight Set #1 (Use for all TTC Series Transducers)
TTC	Weight Set #2 (For 200 in. oz. to 250 ft. lb. TTC Series Transducers)
TTC	Weight Set #3 (For 600 ft. lb To 2,000 ft. lb. TTC Series Transducers)



Weight Hangers/Trays

Use to calibrate any TTC series transducer. Weight trays certified as to weight.

TTC301	Weight Hanger, 8 oz.
TTC3040	Weight Tray, 7.5 lb.
TTC3020	Weight Tray, 15 lb.
TTC3030	Weight Tray, 50 lb.

Joint Rate Simulator Adaptors

- Use with torque tester when testing non-impacting power tools
- Square drive adaptor is placed on top of square drive of the torque tester and tightened with a set screw
- Adaptor bit is inserted into the power tool and mated to the top of the joint adaptor
- By stacking the belleville washers in set patterns the joint rate adaptor can simulate soft medium or hard joints

Stock No.	Square Drive, inches	Capacity, in. lb.	Adaptor Bit	Load Screw
QC1JRS50	1/4	50	1/4" Hex x 3/16" Hex	1/4" x 28 x 1
QC2JRS400	3/8	400	3/8" Square Internal x 3/8" Hex	7/16" x 20 x 1.5
QC[illegible]1000	3/8	1,000	3/8" Square Internal x 1/2" Hex	5/8" x 18 x 1.5



QC2JRS400

TORQUE

Electronic Bench Top Torque Testers



Horizontal Torque Testers and Transducers

- TBT600A designed to be a complete and flexible calibration solution
- Peak hold feature incorporates hands free mode to increase efficiency
- Certificate generation function allows unit to print certifications directly to a printer or computer
- NTEP certified scale is independently traceable to NIST standard handbook 44 and stored data of tester calibration for auditing purposes

Stock No.	Description	Range	Resolution
TBTT16A	Transducer	7.5 in. lb. to 200 in. lb.	.002 ft. lb., 02 in. lb., 025 in. oz., .002 N•m., .0002 kg•m., .02 kg•cm
TBTT100A	Transducer	5 ft. lb. to 100 ft. lb.	.01 ft. lb., 1 in. lb., 2 in. oz., .01 N•m., .001 kg•m, 1 kg•cm
TBTT600A	Transducer	30 ft. lb. to 600 ft. lb.	.05 ft. lb., 5 in. lb., 10 in. oz., 1 N•m., .01 kg•m., 1 kg•cm



TCR175

Torque Comparators

TCR175 Torque Comparator.

- To determine if a torque wrench requires calibration to maintain proper application of torque
- Large and easy to read dial and simple operation makes the tester quick and easy to use for everyday verification of torque calibration
- ½" female square drive input and 175 ft.. lb capacity with 5 ft. lb. graduations and 230 N•m capacity with 10 N•m increments is a perfect fit for the most popular torque wrenches
- Integrated exercise adaptor makes it easy to break in simple, providing the most accurate results (as per B107.14M standard)
- 2% accurate within ± 2% of the reading from 20% of full scale to full scale clockwise and counterclockwise
- Can check a 3/8" drive torque wrench by using an adaptor A2A or adaptor GAF2A
- Includes certificate of calibration compliance



TCR600

TCR600 Torque Comparator

Similar to TCR175 except for these differences:

- 3/4” female square drive input and 600 ft. lb. capacity with 10 ft. lb. graduations and capacity 800 N•m capacity with 20 N•m increments is a perfect fit for the most popular torque wrenches
- Compact design with ¼” steel mounting plate allows for convenient installation in any direction – horizontally on a bench, vertically on a wall, or on any other sturdy, flat surface
- Use on most ¾” drive torque wrenches including these popular Snap-On® models: TECH4R600/TECH4RM600, QD4400/QD4R400, QD4600/QD4R600, TQR400E/TQR600E, TE352A/TE602A series and TEC352A/TEC602A series

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CONNECT

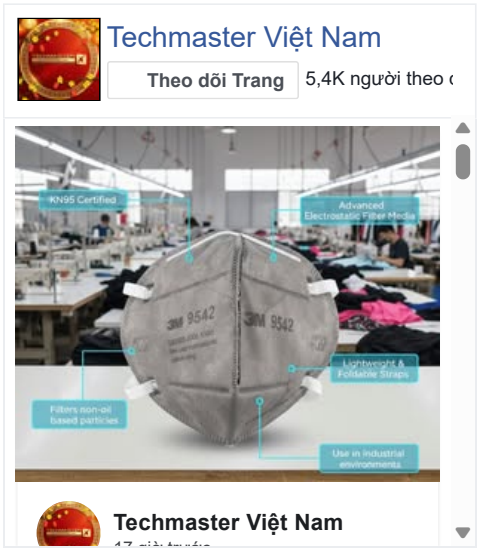
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