



MULTITORQ

Torque and Data
Collection System

MULTITORQ™ Torque and Data Collection System

The MULTITORQ portable electronic torque meter displays torque readings from sensors that attach between sockets and driver. MULTITORQ is a highly versatile torque analyzer/data acquisition system that can be used with sockets, extensions, universal joints, ratcheting drivers or any combination of these. Sensors are sold separately, available in 8 ranges from 2-20 in. ozs. to 150-1500 ft. lb. Accuracy $\pm 1\%$ of reading ($\pm 2\%$ reading for 20 in. oz., and 10 in. lb.) 10-100% of sensor range.

The torque analyzer features a wide angle viewing LCD display with selectable readouts; ft. lb., in. lb., in. oz., Nm, dNm, mkg, and cmkg units.

Torque target settings are entered via a push button membrane keyboard. High and low torque limits are adjustable to give an audible and visual alarm. The user selects Track mode to display torque values as they are applied, or Peak mode to display the highest torque value applied.



*Includes MULTITORQ Custom Case
and Power Pack/Charger.*



MULTITORQ™ Torque and Data Analyzing Features

- 4 digit w/ Alpha & Numerical function flags
- 4 digit, 8000 counts display capacity
- Accuracy: $\pm 1\%$ of indicated value, CW & CCW, from 10% to 100% of full scale, 201-0-MT and 101-I-MT are $\pm 2\%$
- Soft Touch Keys: Hi/Lo Alarm, Zero Tare, Set-up, Units, Store/Recall/Clear, Send, Statistics, Enter
- Units of Measurement: ft. lb., in. lb., in. oz., Nm, dNm, mkg and cmkg
- Storage: -20 to 50 degrees C (-2 to 122 degrees F)
- Humidity: up to 90%, Non-condensing
- Dimensions: 3" wide, 2.5" high (3" with belt clip), 6" deep
- Weight: 1 Pound
- Charge Life (Full Charge to Shutoff): 20 Hours Continuous
- Battery Chargers: 120 VAC or 220 VAC (50-60Hz)
- Output: 9VDC, 200mA
- Data Storage/Recall: 3500 Measurements
- Serial Output Port: RS-232 (true), 300-19.2K Baud, and Mitutoyo (Statistical Protocol)
- Rechargeable Ni-Cad Batteries
- Reads Bi-directionally (CW and CCW)

Standard Set Includes:

Part Number	Description
1600-MT	MULTITORQ Unit includes: power pack/charger (P115-30) and case (1600-50)

Sensors:

Part Number	Torque Range	Drive
201-0-MT	2 - 20 in. oz.	1/4"
101-I-MT	1 - 10 in. lb.	1/4"
501-I-MT	5 - 50 in. lb.	1/4"
2001-I-MT	20 - 200 in. lb.	1/4"
1002-F-MT	10 - 100 ft. lb.	3/8"
2503-F-MT	25 - 250 ft. lb.	1/2"
6004-F-MT	60 - 600 ft. lb.	3/4"
15005-F-MT	150 - 1500 ft. lb.	1"

Certificate of Accuracy traceable to N.I.S.T. supplied with each Transducer.
All components ordered separately.

Optional Accessories:

Part Number	Description
1600-10	Interface Cable: RS-232 to serial printer
1600-20	Interface Cable: RS-232 to P.C.
1600-30	Head Phones: Dual headset with 1/8" stereo plug



Turns any ordinary ratchet wrench.....



...into a highly accurate digital torque tool.



*From 2 in. ozs. all the way to 1500 ft. lbs.,
Multitorq fills all of your torque needs.*



*Headphone jack, on-off switch,
and serial port for downloading to a PC.*

Smart Sensors: "Plug-and-Play" built-in EEPROM memory chip that stores sensor identification and calibration factors. Factory calibrated, a sensor retains its accuracy with all MULTITORQ™ meters.



Easy downloading to a PC via the serial port.



*Handy belt clip and angled display makes the MULTITORQ™
the ultimate portable torque collection system.*



PC Statistical Analysis Output: Download histogram, minimum and maximum reading, mean, sigma N, sigma, CP, Cpk, % error, number of readings under and over tolerances.