

Digital Force and Torque Meter



With Detachable Intelligent Force Load Cells and Torque Transducers

- Accepts multiple interchangeable load cells/torque transducers
- Large memory capacity (100 samples plus statistics)
- High sampling rate (1000 hz)
- 3 types of measuring modes: average, peak compression (clockwise torque) and peak tension (counterclockwise torque)
- Handheld operation and test stand mountable
- Hi and low set points
- External tare and hold control
- Torque transducer may be used as tool calibrator
- Load cells and torque transducers are pre-calibrated
- Optional 3/8" square drive



Ask about
2 Year NIST
Save 50%
on 2nd year
recalibration

SPECIFICATIONS

Model	DRI
Capacity & Resolution	See Force Sensor and Torque Sensor table below
Accuracy	See Force Sensor and Torque Sensor table below
Display	Five digit LCD, .47" high (12 mm) with various indicators including tension and low battery indication
Measuring Mode	Average, peak compression/CW peak torque, peak tension/CCW peak torque (selectable)
Display Update	125 ms, 250 ms, 500 ms, 1 sec, 2 sec (selectable)
Sampling Rate	1000 samples/sec
Outputs	1. RS232C 2. Digimatic: (works with Mitutoyo's printer model DP-1HS) 3. Analog: (± 1 VDC tare function capability)
Comparator Output (Set Points)	Three open collector NPN transistors for HI, GO, and Lo (28 VDC, 7 mA maximum)
Overload Output	Two open collector NPN transistors: one for tension and one for compression (28 VDC, 5 mA maximum)
Tare & Hold Control	Relay contact (tare or hold selectable)
Memory	Holds 100 samples plus statistics (max, min, avg and standard deviation)
Power	Four AA alkaline batteries (included) last approximately 20 hours operation, AC adapter (included) for continuous use
Dimension/Weight	9.41" L x 3" W x 1.77" H (240 mm x 76 mm x 45 mm)/1 lb (450 g)

Force Sensor Specifications

Torque Sensor Specifications

Model	LC-100S	LC-500S	TS-3J	TS-50J	TS-100J
Capacity	100 lb 50 kg 500 N	500 lb 250 kg 2500 N	50 in-oz 3.5 kg-cm 35 N-cm	50 in-lb 50 kg-cm 5 N-m	100 in-lb 120 kg-cm 12 N-m
Resolution (with Force Display)	0.02 0.01 kg 0.1 N	10.1 lb 0.1 kg 1 N	0.01 in-oz 0.001 kg-cm 0.01 N-cm	0.01 in-lb 0.01 kg-cm 0.001 N-m	0.1 in-lb 0.1 kg-cm 0.01 N-m
Accuracy	$\pm 0.2\%$ F.S. ± 1 digit		$\pm 0.5\%$ F.S. ± 1 digit		

Catalog No.	Model	Description
SH001	DRI	Digital Force and Torque Meter only (choose sensors below)
SH10011	LC-100S	Remote Load Cell
SH500	LC-500S	Remote Load Cell
SH5000	TS-3J	Torque Sensor (Jacobs chuck)
SH501	TS-50J	Torque Sensor (Jacobs chuck)
SH1002	TS-100J	Torque Sensor (Jacobs chuck)
NISTFG01	—	NIST Traceable Certificate
NISTFG02	—	NIST Traceable Certificate with Data