

MARK-10

M7

- TENSION & COMPRESSION
- CAPACITIES: 1/8 lbf thru 500 lbf
- FULL TEST STAND CAPABILITY
- HIGH SPEED SAMPLING: 14000 Hz
- 5000 DATA POINT MEMORY
- FORCE vs TIME AVERAGING
- TEST SAMPLE BREAK DETECTION
- CONTINUOUS DATA CAPTURE



M7
 Digital Force Gauge
 3 Year Warranty - call for details

Made in America, the advanced 0.1% accuracy **M7 Digital Force Gauge** features a wide range of capacities from 0.12 to 500 lbf [0.5N to 2500N], a 14,000 Hz sampling rate and a 3 year warranty.

The **M7** is designed for advanced testing mounted on the ESM 301 or the ESM 1500 Force Test Stand for break tests, tensile & compression and many other special applications.

CONSTRUCTION

- Large backlit 6 digit graphic display enabling direct visual gauge control.
- American standard load shaft and mounting threads.
- Reversible load shaft—up or down—maintains upright keyboard.
- 150% of capacity overload protection.

OPERATION

- High-speed 14,000 Hz sampling rate.
- Continuous data capture up to 5,000 data points up to 14,000 Hz.
- Individual data point memory up to 5,000 data points.
- USB, RS-232, Mitutoyo, and analog outputs.
- 1st / 2nd peak break detection with auto functions on ESM Test Stands.
- Automatic output / data storage / zeroing upon various event completions.
- Programmable foot switch command string.
- Programmable set points, with indicators and outputs.
- Averaging mode—calculates average readings over time.
- External trigger mode—for switch contact testing.
- Includes MESURLite data acquisition software—continuous or single point.

POWER

- AC or rechargeable battery.
- Multi-step low battery indicator; gauge shuts off automatically at low power.

ACCESSORIES

- NiMH battery, AC adapter/charger, hook, flat, chisel, cone, V-groove, extension rod, case, USB cable, USB driver & MESURLite software on CD, manual and NIST Calibration Certificate with data.

ACCURACY

- Accurate to ± 0.1% of full scale.

WEIGHT & DIMENSIONS

- M7: 1 lb. [0.45 kg]
- M7-200 & 500: 1.2 lb. [0.54 kg]
- 6" [152 mm] H x 2.5" [64 mm] W x 1.3" [34 mm] D

MODEL	PRICE	CAPACITY/GRADUATION					
M7-012	\$1,745	0.12 x 0.00002 lbf	2 x 0.0005 ozf	50 x 0.01 gf	0.5 x 0.0001 N	—	500 x 0.1 mN
M7-025	1,745	0.25 x 0.00005 lbf	4 x 0.001 ozf	100 x 0.02 gf	1 x 0.0002 N	—	1000 x 0.2 mN
M7-05	1,745	0.5 x 0.0001 lbf	8 x 0.002 ozf	250 x 0.05 gf	2.5 x 0.0005 N	—	2500 x 0.5 mN
M7-2	1,595	2 x 0.0005 lbf	32 x 0.01 ozf	1 x 0.0002 kgf	10 x 0.002 N	—	—
M7-5	1,595	5 x 0.001 lbf	80 x 0.02 ozf	2.5 x 0.0005 kgf	25 x 0.005 N	—	—
M7-10	1,595	10 x 0.002 lbf	160 x 0.05 ozf	5 x 0.001 kgf	50 x 0.01 N	—	—
M7-20	1,595	20 x .005 lbf	320 x 0.1 ozf	10 x 0.002 kgf	100 x 0.02 N	—	—
M7-50	1,595	50 x 0.01 lbf	800 x 0.2 ozf	25 x 0.005 kgf	250 x 0.05 N	—	—
M7-100	1,595	100 x 0.02 lbf	1600 x 0.5 ozf	50 x 0.01 kgf	500 x 0.1 N	—	—
M7-200	1,745	200 x 0.05 lbf	3200 x 1 ozf	100 x 0.02 kgf	1000 x 0.2 N	1 x 0.0002 kN	—
M7-500	1,745	500 x 0.1 lbf	8000 x 2 ozf	250 x 0.05 kgf	2500 x 0.5 N	2.5 x 0.0005 kN	—

MODEL	CABLES	PRICE	MODEL	FORCE TESTING SOFTWARE	PRICE
09-1162	Cable, Multi-Function, M7 to Test Stand Controller	\$125	15-1004	MESURgauge Force Testing Software	\$495*
09-1163	Cable, RS232, M7 to PC, 9 pin	75	* Feature rich force testing software - force vs. distance analysis.		
09-1164	Cable, Mitutoyo, M7 to SPC Printer	75	NOTE: 1) MESURgauge DEMO download available at: www.mark-10.com		
09-1165	Cable, USB, M7 to PC	30*	2) Free MESURLite download available at: www.mark-10.com		
09-1166	Cable, Analog, M7 to Application	75			

* M7 includes USB cable, driver & MESURLite data software on CD.

Prices and specifications are subject to change without notice.

CALL US TOLL FREE 800-345-4188

