

MARK-10

M5

- TENSION & COMPRESSION
- CAPACITY: 1000 lbf / 500 kgf / 5000 N
- USB / RS232 / ANALOG / MITUTOYO
- MESURLITE DATA SOFTWARE
- 1000 DATA POINT MEMORY
- FULL TEST STAND CAPABILITY
- ACCURACY: ± 0.1% of Full Scale



M5
Digital Force Gauge

Made in America, the M5 Digital Force Gauge is the force sensor of the advanced ESM 301 Motorized Force Test Stand with a large backlit graphics liquid crystal display and simple menu navigation.

FEATURES

- Large graphic liquid crystal display of:
 - Primary force reading - 6 digit
 - Peak force readings - maximum tension & compression
 - Set point force - programmed high & low settings
 - Load bar - visual analog indicator of applied force
- Complete computer interface outputs - USB/RS232/Analog/Mitutoyo.
- High speed USB & RS232 to 115, 200 baud.
- Analog ± 1 Vdc output for instantaneous control of external devices.
- MESURLite data collection software and USB cable included.
- 1000 data point storage in memory with output to PC.
- Statistical analysis - minimum, maximum, mean & standard deviation.
- 7000 Hz peak sampling of rapid occurring events.
- Overload protection for motorized test stand.
- Programmable force set points for pass-fail testing and external triggering.
- Averaging mode - calculates average force over time.
- External trigger - records activation force of switch closure.

CONSTRUCTION

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

POWER REQUIREMENTS

- Continuous operation with 110 or 220 Vac power adapter.
- Rechargeable NiMH battery for up to 24 hours continuous use.

ACCURACY

- Accurate to ± 0.1% of full scale ± 1 least significant digit.

WEIGHT & DIMENSIONS

- 1 lb. [0.5 kg] • 6" [152 mm] H x 2.75" [70 mm] W x 1.8" [47 mm] D

MODEL	PRICE	CAPACITY/GRADUATION					
M5-012	\$1245	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
M5-025	1245	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
M5-05	1245	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
M5-2	1095	2 x 0.0005 lbf	32 x 0.01 ozf	1 x 0.0002 kgf	10 x 0.002 N	—	—
M5-5	1095	5 x 0.001 lbf	80 x 0.02 ozf	2.5 x 0.0005 kgf	25 x 0.005 N	—	—
M5-10	1095	10 x 0.002 lbf	160 x 0.05 ozf	5 x 0.001 kgf	50 x 0.01 N	—	—
M5-20	1095	20 x 0.005 lbf	320 x 0.1 ozf	10 x 0.002 kgf	100 x 0.02 N	—	—
M5-50	1095	50 x 0.01 lbf	800 x 0.2 ozf	25 x 0.005 kgf	250 x 0.05 N	—	—
M5-100	1095	100 x 0.02 lbf	1600 x 0.5 ozf	50 x 0.01 kgf	500 x 0.1 N	—	—
M5-200	1245	200 x 0.05 lbf	3200 x 1 ozf	100 x 0.02 kgf	1000 x 0.2 N	1 x 0.0002 kN	—
M5-500	1245	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	—
M5-1000	1495	1000 x 0.5 lbf	16000 x 10 ozf	500 x 0.2 kgf	5000 x 2 N	5 x 0.002 kN	—

MODEL	CABLES	PRICE	MODEL	FORCE TESTING SOFTWARE	PRICE
09-1162	Cable, Multi-Function, M5 to Test Stand Controller	\$125	15-1004	MESURgauge Force Testing Software	\$495*
09-1163	Cable, RS232, M5 to PC, 9 pin	75	* Feature rich force testing software - force vs. distance analysis.		
09-1164	Cable, Mitutoyo, M5 to SPC Printer	75	NOTE: 1) MESURgauge DEMO download available at: www.mark-10.com		
09-1165	Cable, USB, M5 to PC	30*	2) MESURLite download available at: www.mark-10.com		
09-1166	Cable, Analog, M5 to Application	75			

* M5 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

