

Series 5 advanced digital force gauges are designed for tension and compression force testing in numerous applications across virtually every industry, with capacities from 0.12 lb to 2000lb (0.5 N to 5000N).



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Capacity x Readability
1500 lb x 1 lb

Manufature: Mark 10
SKU: **M5-1500**
UPC: B077BS854X
Weight: 1.80 lb

Free Ground Shipping within the 48 continental US States

Please Call (800)832-0055

Features

Series 5 advanced digital force gauges are designed for tension and compression force testing in numerous applications across virtually every industry, with capacities from 0.12 lb to 500 lb (0.5 N to 2500 N). The gauges feature an industry-leading peak sampling rate of 7,000 Hz, producing accurate results even for quick-action tests. Accuracy is $\pm 0.1\%$ of full scale ± 1 digit, and resolution is 1/5000. A large, backlit graphics LCD displays large, legible characters, while the simple menu navigation allows for quick access to the gauges' many features and configurable parameters. Data can be transferred to a PC or other data collector via USB, RS-232, Mitutoyo (Digimatic), or analog outputs.

On-board data memory for up to 1000 readings is included, as are statistical calculations and output to a PC. Integrated set points with indicators are ideal for pass-fail testing and for triggering external devices such as an alarm, relay, or test stand. The gauges are overload protected to 150% of capacity, and an analog load bar is shown on the display for graphical representation of applied force.

The Series 5's averaging mode addresses the need to record the average force over time, useful in applications such as peel testing, while external trigger mode makes switch activation testing simple and accurate. An ergonomic, reversible aluminum design allows for hand held use or test stand mounting for more sophisticated testing requirements. Series 5 force gauges are directly compatible with Mark-10 test stands, grips, and software.

Features

- High-speed 7,000 Hz peak sampling rate
- USB, RS-232, Mitutoyo, and analog outputs
- Large backlit graphic display
- 1,000-point data memory with statistics and outputs
- Live load bar graph with set point markers
- Programmable set points, with alarms and outputs
- Peak readings and set points always displayed
- Averaging mode - calculates average readings over time
- External trigger mode - for switch contact testing or remotely stopping display update
- Automatic data output via USB/RS-232
- 5 selectable units of measurement
- Configurable audio alarms and key tones
- Password protection, configurable for individual keys and calibration

Specifications

Model	M5-012	M5-025	M5-05	M5-2	M5-5	M5-10	M5-20	M5-50	M5-100	M5-200	M5-300	M5-500	M5-750	M5-1000	M5-1500	M5-2000
Capacity X Resolution lb	0.12 x 0.00002	0.25 x 0.00005	0.5 x 0.0001	2 x 0.0005	5 x 0.001	10 x 0.002	20 x 0.005	50 x 0.01	100 x 0.02	200 x 0.05	300 x 0.1	500 x 0.1	750 x 0.5	1000 x 0.5	1500 x 1	2000 x 1
Capacity X Resolution oz	2 x 0.0005	4 x 0.001	8 x 0.002	32 x 0.01	80 x 0.02	160 x 0.05	320 x 0.1	800 x 0.2	1600 x 0.5	3200 x 1	4800 x 2	8000 x 2	12000 x 10	16000 x 5	24000 x 20	32000 x 20
Capacity X Resolution kg	-	-	-	1 x 0.0002	2.5 x 0.0005	5 x 0.001	10 x 0.002	25 x 0.005	50 x 0.01	100 x 0.02	150 x 0.05	250 x 0.05	375 x 0.2	500 x 0.2	750 x 0.5	1000 x 0.5
Capacity X Resolution g	50 x 0.01	100 x 0.02	250 x 0.05	1000 x 0.2	2500 x 0.5	5000 x 1	10000 x 2	25000 x 5	50000 x 10	-	-	-	-	-	-	-
Capacity X Resolution N	0.5 x 0.0001	1 x 0.0002	2.5 x 0.0005	10 x 0.002	25 x 0.005	50 x 0.01	100 x 0.02	250 x 0.05	500 x 0.1	1000 x 0.2	1500 x 0.5	2500 x 0.5	3750 x 2	5000 x 2	7500 x 5	10000 x 5
Capacity X Resolution kN	-	-	-	-	-	-	-	-	-	1 x 0.0002	2.5 x 0.0005	1.5 x 0.0005	3.75 x 0.002	5 x 0.002	7.5 x 0.005	10 x 0.005
Capacity X Resolution mN	500 x 0.1	1000 x 0.2	2500 x 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Accuracy	±0.1% of full scale ±1 digit															
Power	AC or rechargeable battery. Multi-step low battery indicator is displayed; gauge shuts off automatically when power is too low All models include 110V AC adapters: euro plug (220V) or UK plug (220V) available.															
Battery life	Backlight on: up to 7 hours of continuous use Backlight off: up to 24 hours of continuous use															
Measurement units	lb, oz, g, kg, N, kN, mN (depending on model)															
Outputs	USB / RS-232: Configurable up to 115,200 baud. Includes Gauge Control Language 2 for full computer control Mitutoyo (Digimatic): Serial BCD suitable for all Mitutoyo SPC-compatible devices Analog: ±1 VCD, ±0.25% of full scale at capacity General purpose: Three open drain outputs, one input Set points: Three open drain lines															
Configurable settings	Digital filters, outputs, automatic output (via USB/RS-232), automatic shutoff, default settings, averaging mode, external trigger, passwords, key tones, audio alarms, backlight, calibration															
Safe overload	150% of full scale (display shows "OVLD" at 110% and above)															
Weight (gauge only)	1.0 lb [0.45 kg]								1.2 lb [0.54 kg]				1.8 lb [0.82 kg]			
Included items	Carrying case with chisel, cone, V-groove, hook, flat, extension rod, universal voltage AC adapter, battery, quick-start guide, USB cable, resource CD (USB driver, MESURGauge DEMO software, and user's guide), and NIST-traceable certificate of calibration with data.															
Warranty																
Model	M5-012	M5-025	M5-05	M5-2	M5-5	M5-10	M5-20	M5-50	M5-100	M5-200	M5-300	M5-500	M5-750	M5-1000	M5-1500	M5-2000
Included Extension Rods					G1024								G1031			
Included Cone					G1026								G1033			
Included Chisel					G1025								G1032			
Included V-Groove					G1027								G1034			
Included Flat					G1029								G1036			
Included Hook			G1028						G1038		G1035				G1042	
Included Coupling			-						G1039			G1037			-	
Thread Adapter															G1041	

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