Data Sheet Advanced Digital Force Gauges Series 5



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.



Shown with an ESM301 test stand and G1061 wedge grips

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







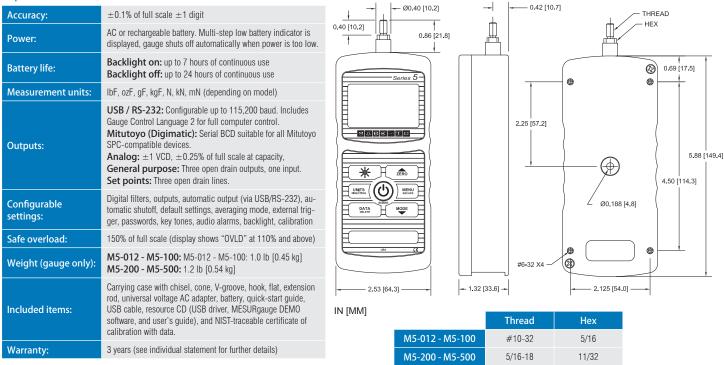


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Specifications



Ordering Information

	Capacity							Resolution							Load Cell	
Model	lbF	ozF	kgF gl	gF	N	kN	mN	lbF	ozF	kgF	gF	N	kN	mN	Deflection	
M5-012	0.12	2		50	0.5		500	0.00002	0.0005		0.01	0.0001		0.1	0.005 [0.13]	
M5-025	0.25	4		100	1		1000	0.00005	0.001		0.02	0.0002		0.2	0.010 [0.25]	All models in 110V AC ada Add suffix 'E euro plug (2 or 'U' for UK (220V).
M5-05	0.5	8		250	2.5		2500	0.0001	0.002		0.05	0.0005		0.5	0.010 [0.25]	
M5-2	2	32	1	1000	10			0.0005	0.01	0.0002	0.2	0.002			0.009 [0.23]	
M5-5	5	80	2.5	2500	25			0.001	0.02	0.0005	0.5	0.005			0.005 [0.13]	
M5-10	10	160	5	5000	50			0.002	0.05	0.001	1	0.01			0.010 [0.25]	
M5-20	20	320	10	10000	100			0.005	0.1	0.002	2	0.02			0.004 [0.10]	
M5-50	50	800	25	25000	250			0.01	0.2	0.005	5	0.05			0.010 [0.25]	
M5-100	100	1600	50	50000	500			0.02	0.5	0.01	10	0.1			0.010 [0.25]	Ex: M5-50E,
M5-200	200	3200	100		1000	1		0.05	1	0.02		0.2	0.0002		0.010 [0.25]	M5-200U
M5-500	500	8000	250		2500	2.5		0.1	2	0.05		0.5	0.0005		0.010 [0.25]	

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