Data Sheet

Advanced Digital Force Gauges Series 5

32-1111 REV 3 Page 1 of 2



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 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 data collectors via USB, RS-232, Mitutoyo (Digimatic), or analog outputs.

On-board data memory for up to 1,000 readings is included, as are statistical calculations with output to a PC. Integrated set points with indicators and outputs 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

2.578

Shown with an ESM301 test stand and G1061 wedge grips

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.

Series 5 gauges include MESUR™ Lite data acquisition software. MESUR™ Lite tabulates continuous or single point data from Series 5 gauges. Data saved in the gauge's memory can also be downloaded in bulk. One-click export to Excel easily allows for further data manipulation.

MESUR™ Lite data acquisition software is included with Series 5 gauges

Features

- High-speed 7,000 Hz 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 indicators 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



Download Gauge Memory

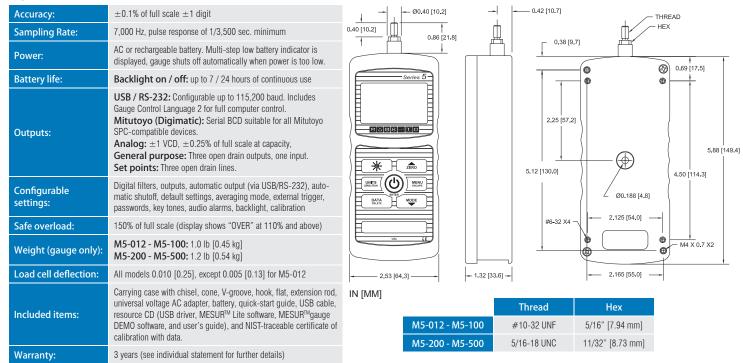
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32-1111 REV 3 Page 2 of 2



Specifications



Capacity & Resolution

Model	lbF	ozF	kgF	gF	N	kN	mN	lbF	ozF	kgF	gF	N	kN	mN	
M5-012	0.12	2		50	0.5		500	0.00002	0.0005		0.01	0.0001		0.1	All models include 110V AC adapters. Add suffix 'E' for euro plug (220V), 'U' for UK plug (220V) or 'A' for Australian plug (220V).
M5-025	0.25	4		100	1		1000	0.00005	0.001		0.02	0.0002		0.2	
M5-05	0.5	8		250	2.5		2500	0.0001	0.002		0.05	0.0005		0.5	
M5-2	2	32	1	1000	10			0.0005	0.01	0.0002	0.2	0.002			
M5-5	5	80	2.5	2500	25			0.001	0.02	0.0005	0.5	0.005			
M5-10	10	160	5	5000	50			0.002	0.05	0.001	1	0.01			
M5-20	20	320	10	10000	100			0.005	0.1	0.002	2	0.02			
M5-50	50	800	25	25000	250			0.01	0.2	0.005	5	0.05			Ex: M5-05E.
M5-100	100	1600	50	50000	500			0.02	0.5	0.01	10	0.1			M5-100U,
M5-200	200	3200	100		1000	1		0.05	1	0.02		0.2	0.0002		M5-500A
M5-500	500	8000	250		2500	2.5		0.1	2	0.05		0.5	0.0005		
M5-1000	See data sheet for Model M5-1000 for complete information														