



The M5-1000 advanced digital force gauge is designed for tension and compression force testing in numerous applications across virtually every industry, with a capacity of 1,000 lbf (5,000 N). The gauge features 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 1/5,000. 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 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 M5-1000'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. The M5-1000 force gauge is directly compatible with high capacity Mark-10 test stands, grips, and software.



Shown with a TSF test stand in a spring testing application

MESUR™ Lite data acquisition software is included with the M5-1000 force gauge



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

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

Display Indicators



Specifications subject to change without prior notice



Distribué par Wimesure

54, rue de Versailles • 78460 CHEVREUSE • Tél. 01 30 47 22 00 • Fax 01 30 47 28 29
www.wimesure.fr • info@wimesure.fr

Focus on Engineering: Reversible Housing

Display and keypad are upright

Shaft down

Housing separates into reversible halves, electrically connected by gold-plated spring contacts.

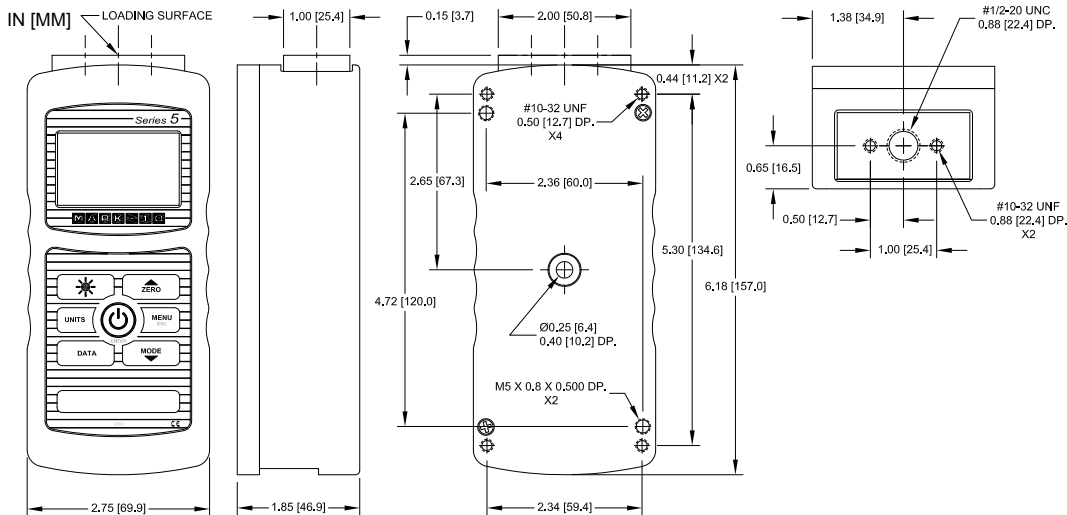
Shaft up

Reversible housing allows the gauge to be handheld or mounted to a test stand.

The display and keypad remain upright.

Specifications

Accuracy:	±0.1% of full scale ±1 digit
Sampling Rate:	7,000 Hz, pulse response of 1/3,500 sec. minimum
Power:	AC or rechargeable battery. Multi-step low battery indicator is displayed, gauge shuts off automatically when power is too low.
Battery life:	Backlight on: up to 7 hours of continuous use / Backlight off: up to 24 hours of continuous use
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 "OVER" at 110% and above)
Weight (gauge only):	1.8 lb [0.82 kg]
Load cell deflection:	0.015 [0.38] at full scale
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, MESUR™ Lite software, MESUR™ gauge DEMO software, and user's guide), and NIST-traceable certificate of calibration with data.
Warranty:	3 years (see individual statement for further details)



Capacity & Resolution

Model	lbF	ozF	kgF	N	kN	lbF	ozF	kgF	N	kN
M5-1000	1000	16000	500	5000	5	0.5	5	0.2	2	0.002

The M5-1000 includes a 110V AC adapter. Specify model M5-1000E for euro plug (220V), M5-1000U for UK plug (220V), or M5-1000A for Australian plug (220V).

MARK-10

3 YEAR WARRANTY

Specifications subject to change without prior notice



Distribué par Wimesure

54, rue de Versailles • 78460 CHEVREUSE • Tél. 01 30 47 22 00 • Fax 01 30 47 28 29
www.wimesure.fr • info@wimesure.fr