



Series 3 digital force gauges are designed for tension and compression force testing in numerous applications from 0.12 lbF to 500 lbF (0.5 N to 2500 N). The gauges feature a sampling rate of 2,000 Hz, producing accurate results under a wide range of test conditions. A backlit graphic LCD displays large characters, and a menu is available to access the gauges' features and configurable parameters. USB output is provided for data collection purposes.

Set point indicators are provided for pass-fail testing. 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.



MESUR Lite data acquisition software is included with Series 3 gauges

An ergonomic, reversible aluminum housing allows for hand held use or test stand mounting for more sophisticated testing requirements. Series 3 digital force gauges are directly compatible with Mark-10 test stands, grips, and software.

The gauges include MESUR Lite data acquisition software. MESUR Lite tabulates continuous or single point data. One-click export to Excel allows for further data manipulation.



Shown with an ES20 test stand and G1061 wedge grips

Features

- High-speed 2,000 Hz sampling rate
- USB data output
- Ultra-compact size
- Large backlit graphic display
- Programmable set points with pass/fail indicators
- Live load bar graph with set point markers
- Peak readings and set points always displayed
- Configurable audio alarms and key tones
- 4 selectable units of measurement
- MESUR Lite data collection software included

Display Indicators

Set points ———> 8.00, 4.00

Pass/fail indicators ———> SP, PK

Current reading ———> -5.26

Battery indicator ———> [Battery Icon]

Tension/compression indicator ———> +/-

Peak readings ———> PK 5.26, 4.74

Measurement mode ———> PC

Units of measurement ———> 1bF

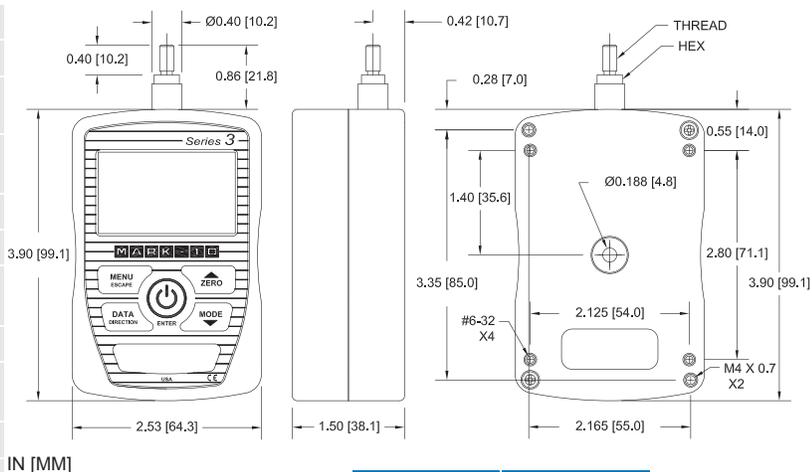
Analog load bar w/set point markers ———> [Load Bar]

Focus on Engineering: Reversible Housing



Specifications

Accuracy:	±0.3% of full scale ±1 digit
Sampling Rate:	2,000 Hz
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
Measurement Units:	lbf, gF, kgF, N (depending on model)
USB Output:	By pressing DATA key only. Configurable up to 115,200 baud.
Configurable settings:	Digital filters, USB output, automatic shutoff, default settings, key tones, audio alarms, calibration.
Safe overload:	150% of full scale (display shows "OVER" at 110% and above)
Weight (gauge only):	M3-012 - M3-100: 0.7 lb [0.33 kg] M3-200 - M3-500: 0.9 lb [0.41 kg]
Load cell deflection:	All models 0.010 [0.25], except 0.005 [0.13] for M3-012
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, MESURgauge DEMO software, and user's guide), and NIST-traceable certificate of calibration (certificate with data is available for an additional charge).
Warranty:	3 years (see individual statement for further details)



	Thread	Hex
M3-012 - M3-100	#10-32 UNF	5/16" [7.94 mm]
M3-200 - M3-500	5/16-18 UNC	11/32" [8.73 mm]

Capacity & Resolution

Model	Capacity				Resolution			
	lbf	kgF	gF	N	lbf	kgF	gF	N
M3-012	0.12		50	0.5	0.0001		0.05	0.0005
M3-025	0.25		100	1	0.0002		0.1	0.001
M3-05	0.5		250	2.5	0.0005		0.2	0.002
M3-2	2	1		10	0.002	0.001		0.01
M3-5	5	2.5		25	0.005	0.002		0.02
M3-10	10	5		50	0.01	0.005		0.05
M3-20	20	10		100	0.02	0.01		0.1
M3-50	50	25		250	0.05	0.02		0.2
M3-100	100	50		500	0.1	0.05		0.5
M3-200	200	100		1000	0.2	0.1		1
M3-500	500	250		2500	0.5	0.2		2

Certificate of calibration with data is available. Part no. is: CERT.

All models include 110V AC adapters, unless ordered as below:

Add suffix 'E' for euro plug (220V), 'U' for UK plug (220V) or 'A' for Australian plug (220V).

Example: M3-05E, M3-100U, M3-500A