

# SERIES 3 – DIGITAL FORCE GAUGE

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.

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. Currently displayed readings may be sent to MESUR™ Lite for tabulation and one-click export to Excel for further data manipulation.

## SPECIFICATIONS

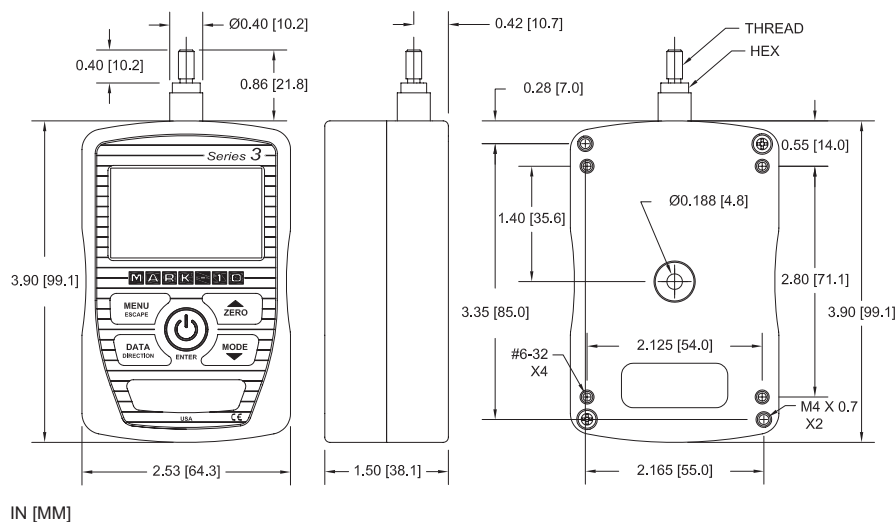
LOAD RANGE:	0.12 to 500 lb (0.5 to 2500 N)
ACCURACY:	±0.3% of full scale ±1 digit
SAMPLE RATE:	2,000 Hz
MEASUREMENT UNITS:	lbF, gF, kgF, N (depending on model)
POWER:	AC or rechargeable battery. Multi-step low battery indicator is displayed, gauge shuts off automatically when power is too low.
BATTERY LIFE:	<b>Backlight on:</b> up to 7 hours of continuous use <b>Backlight off:</b> up to 24 hours of continuous use
USB OUTPUT:	By pressing DATA key only. Configurable up to 115,200 baud
SAFE OVERLOADS:	150% of full scale (display shows "OVER" at 110% and above)
CONFIGURABLE SETTINGS:	Digital filters, USB output, automatic shutoff, default settings, key tones, audio alarms, calibration.
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
WARRANTY:	3 years (see individual statement for further details)
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 (certificate with data is available for an additional charge).

- **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**



Shown with an ES20 test stand and G1061 wedge grips

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Model	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]

Model No.	CAPACITY & RESOLUTION							
	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