



Series 3 Basic Digital Force Gauges

Series 3 basic digital force gauges feature a sampling rate of 2,000 Hz and $\pm 0.3\%$ accuracy, ideal for numerous applications in virtually every industry. Set point indicators are useful for visual pass/fail testing, while an analog load bar provides graphical representation of applied load. Ultra-compact, reversible housing allows for flexibility in many mounting configurations with space constraints.

Features:

- **USB data output**
Continuous or individual readings may be output to a PC through included USB output.
- **Set point indicators**
High, low, and in-range indicators are displayed according to programmed upper and lower set points.
- **Analog load bar**
Provides visual representation of applied load, and helps provide feedback for an imminent overload condition.
- **Ultra-compact design**
Allows for flexibility in many mounting configurations. Reversible housing allows for hand-held use or test stand mounting.





Series 2 Economical Digital Force Gauges

Series 2 digital force gauges are designed for basic tension and compression force testing applications up to 500 lbf (2,500 N). Peak tension and compression readings are reliably captured via the gauges' $\pm 0.5\%$ accuracy and 500 Hz sampling rate. A backlit graphic LCD displays the current, peak tension, or peak compression reading. Features an ultra-compact, reversible housing.

Features:

- **Peak capture**
For compression and tension measurements.
- **USB data output**
Continuous or individual readings may be output to a PC through included USB output.
- **Battery or AC powered**
Powered by a rechargeable battery or AC adapter.
- **Ultra-compact design**
Allows for flexibility in many mounting configurations. Reversible housing allows for hand-held use or test stand mounting.



 Series 3 Basic		 Series 2 Economical		
±0.3%		±0.5%		Accuracy (% of full scale)
2,000 Hz		500 Hz		Sampling rate
1/1,000				Resolution
USB		USB		Outputs
No		N/A		RS-232
Configurable up to 115,200 baud		N/A		USB
No		N/A		Mitutoyo (Digimatic)
No		N/A		Analog
No		N/A		General purpose I/O
No		N/A		Set point
Yes		N/A		MESUR® Lite software included
By pressing DATA button, or requesting from a PC or other device (currently displayed reading only)				Data output functionality
"?" only (request current reading)				ASCII command set for external control
Single point or continuous data output only				Interface w/MESUR® gauge and MESUR® Lite
No		No		Interface w/ESM303 / 750 / 1500 test stands
No				Data memory (readings, with output)
N/A				Data memory deletion
N/A				Statistic calculations and output to PC
No				Break detection
No				1st / 2nd peak detection
No				Programmable footswitch command string
No		No		Averaging mode
No		No		External trigger mode
Yes		No		Analog load bar graph shown on display
Yes with high/low indicators, markers on analog bar graph, no output		No		Set points (for pass / fail indication)
No				Password protection
Yes		No (Peak mode must be selected)		Peak readings always displayed
Yes		No		Programmable audible tones
Configurable number of data points (up to 10 in each direction)				Calibration procedure
No		No		Overload outputs
Rechargeable. Backlight on: up to 7 hours of continuous use / Backlight off: up to 24 hours of continuous use				Battery life
lbF, gf, kgF, N (depending on model)		lbF, kgF, N		Units of measurement
150% of full scale (display shows warning at 110% and above)				Safe overload
M3-012 - M3-100: 0.7 [0.33] M3-200 - M3-500: 0.9 [0.41]		M2-2 - M2-100: 0.7 [0.33] M2-200 - M2-500: 0.9 [0.41]		Weight (lb [kg])
Carrying case, chisel, cone, V-groove, hook, flat, extension rod, universal voltage AC adapter/charger, rechargeable battery, quick-start guide, USB cable, NIST-traceable certificate of calibration without data. Download free MESUR® Lite or MESUR®gauge Plus demo period at www.mark-10.com/software .		Carrying case, rechargeable battery, quick-start guide, USB cable, certificate of conformance. Download free MESUR® Lite or MESUR®gauge Plus demo period at www.mark-10.com/software .		Included items



Model No.	Capacity x Resolution				
	lbF	kgF	gF	N	
Series 3	M3-012	0.12 x 0.0001	-	50 x 0.05	0.5 x 0.0005
	M3-025	0.25 x 0.0002	-	100 x 0.1	1 x 0.001
	M3-05	0.5 x 0.0005	-	250 x 0.2	2.5 x 0.002
	M3-2	2 x 0.002	1 x 0.001	-	10 x 0.01
	M3-5	5 x 0.005	2.5 x 0.002	-	25 x 0.02
	M3-10	10 x 0.01	5 x 0.005	-	50 x 0.05
	M3-20	20 x 0.02	10 x 0.01	-	100 x 0.1
	M3-50	50 x 0.05	25 x 0.02	-	250 x 0.2
	M3-100	100 x 0.1	50 x 0.05	-	500 x 0.5
	M3-200	200 x 0.2	100 x 0.1	-	1000 x 1
	M3-500	500 x 0.5	250 x 0.2	-	2500 x 2
Series 2	M2-2	2 x 0.002	1 x 0.001	-	10 x 0.01
	M2-5	5 x 0.005	2.5 x 0.002	-	25 x 0.02
	M2-10	10 x 0.01	5 x 0.005	-	50 x 0.05
	M2-20	20 x 0.02	10 x 0.01	-	100 x 0.1
	M2-50	50 x 0.05	25 x 0.02	-	250 x 0.2
	M2-100	100 x 0.1	50 x 0.05	-	500 x 0.5
	M2-200	200 x 0.2	100 x 0.1	-	1000 x 1
	M2-500	500 x 0.5	250 x 0.2	-	2500 x 2



All models include 110V AC adapters

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

Example: M5-05E, M3-20U, M2-100A