

The M4 & M5 digital force gauges are designed for tension and compression force testing in a wide variety of industry applications. Both gauges are available in working force ranges from of 0.12 to 500 pounds (0.5 to 2500 N). The Series 4 gauge features a sampling rate of 3,000 Hz, with resolution of 1/2000 of a unit, and an on-board memory for up to 50 readings. The Series 5 gauge has a sample frequency of 7,000 Hz (resolution of 1/5000 unit) and on-board memory for up to 1,000 readings.



FEATURES

- Standard and high-speed sample rates (3kHz, 7kHz)
- A wide range of force capacities available
- Multiple output interfaces for data transfer (USB, RS-232, Mitutoyo, analog)
- Automatic data output
- Averaging mode, external trigger mode
- Programmable audio alarms and key tones
- Large back lit graphic display
- On board memory for storing test measurements
- Live load bar graph with set point markers
- Programmable set points
- Five selectable units of measurement
- Peak readings and set points always displayed
- Available in many different force ranges
- Password protection

APPLICATIONS

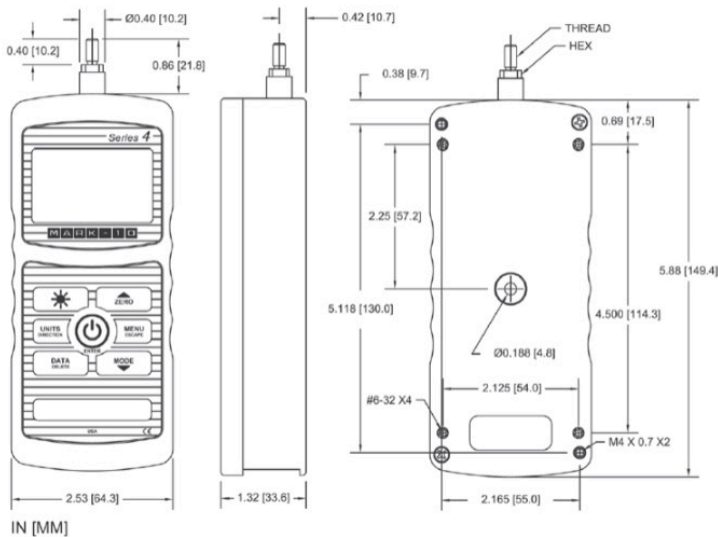
- Automotive Industry
- Manufacturing
- Assembly
- Quality control

ACCESSORIES INCLUDED

- Carrying case
- Chisel, cone, V-grove, hook, flat & extension rod
- AC adapter and battery
- Quick start guide
- USB cable and resource CD (USB driver, software demo, user's guide)
- NIST-traceable certificate of calibration with data

DIMENSIONS

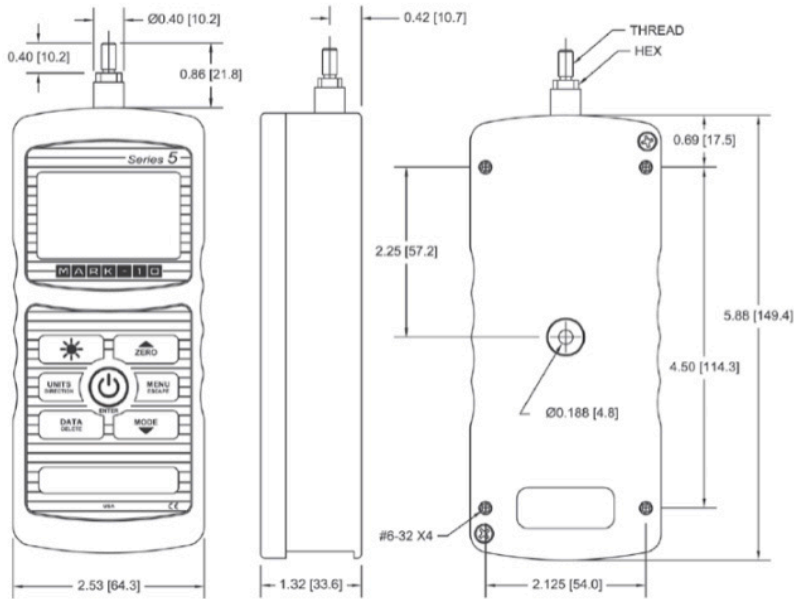
Series 4



M4 Series Gauge

Model	Thread	Hex
M4-012 - M4-100	#10-32 UNF	5/16" (7.94 mm)
M4-200 - M4-500	5/16-18 UNC	11/32" (8.73mm)

Series 5



IN [MM]

M5 Series Gauge		
Model	Thread	Hex
M5-012 - M5-100	#10-32	5/16"
M5-200 - M5-500	5/16-18	11/32"

SPECIFICATIONS

Model	M4 M5
Load Range	0.12 to 500lb (0.5 to 2500N)
Accuracy	±0.2% of full scale ±1 digit (M4) ±0.1% of full scale ±1 digit (M5)
Sampling Rate	3,000 Hz (Series 4 gauge) 7,000 Hz (Series 5 gauge)
Measurement Units	5 to 7 different units, depending on model
Power	AC or rechargeable battery
Battery Life	Back light on: up to 7 hours of continuous use Back light off: up to 24 hours of continuous use
Output	USB/RS-232, Mitutoyo (Digimatic), Analog ±1 VDC, ±0.25% of full scale at capacity, 3 open drain general purpose outputs, 3 open drain set point outputs
Safe Overload	150% of full scale (display shows limit being approached)
Configurable Settings	Many settings to customize gauge parameters and controls
Weight	1.0 to 1.2lb depending on model and options
Load Cell Deflection	All models 0.010 (0.25), except 0.005 (0.13) for M3-012
Included Item	Carrying case with chisel, cone, V-groove, hook, flat, extension rod, AC adapter, battery, USB cable, software, certificate of calibration, user manual
Warranty	3 years

PART NUMBER

M4 Series Gauge

Model	Capacity							Resolution						
	lbF	ozF	kgF	gF	N	kN	mN	lbF	ozF	kgF	gF	N	kN	mN
M4-012	0.12	2		50	0.5		500	0.00005	0.001		0.02	0.0002		0.2
M4-025	0.25	4		100	1		1000	0.0001	0.002		0.05	0.0005		0.5
M4-05	0.5	8		250	2.5		2500	0.0002	0.005		0.1	0.001		1
M4-2	2	32	1	1000	10			0.001	0.02	0.0005	0.5	0.005		
M4-5	5	80	2.5	2500	25			0.002	0.05	0.001	1	0.01		
M4-10	10	160	5	5000	50			0.005	0.1	0.002	2	0.02		
M4-20	20	320	10	10000	100			0.01	0.2	0.005	5	0.05		
M4-50	50	800	25	25000	250			0.02	0.5	0.01	10	0.1		
M4-100	100	1600	50	50000	500			0.05	1	0.02	20	0.2		
M4-200	200	3200	100		1000	1		0.1	2	0.05		0.5	0.0005	
M4-500	500	8000	250		2500	2.5		0.2	5	0.1		1	0.001	

All models include 110V AC adapters
 Add suffix "E" for euro plug (220V) or "U" for UK plug (220V)
 Ex: M4-50E, M4-200UEx

M5 Series Gauge

Model	Capacity							Resolution							Load Cell Deflection
	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	0.005 (0.13)
M5-025	0.25	4		100	1		1000	0.00005	0.001		0.02	0.0002		0.2	0.010 (0.25)
M5-05	0.5	8		250	2.5		2500	0.0001	0.002		0.05	0.0005		0.5	0.010 (0.25)
M5-2	2	32	1	1000	10			0.0005	0.01	0.0002	0.2	0.002			0.009 (0.23)
M5-5	5	80	2.5	2500	25			0.001	0.02	0.0005	0.5	0.005			0.005 (0.13)
M5-10	10	160	5	5000	50			0.002	0.05	0.001	1	0.01			0.010 (0.25)
M5-20	20	320	10	10000	100			0.005	0.1	0.002	2	0.02			0.004 (0.10)
M5-50	50	800	25	25000	250			0.01	0.2	0.005	5	0.05			0.010 (0.25)
M5-100	100	1600	50	50000	500			0.02	0.5	0.01	10	0.1			0.010 (0.25)
M5-200	200	3200	100		1000	1		0.05	1	0.02		0.2	0.0002		0.010 (0.25)
M5-500	500	8000	250		2500	2.5		0.1	2	0.05		0.5	0.0005		0.010 (0.25)

All models include 110V AC adapters
 Add suffix "E" for euro plug (220V) or "U" for UK plug (220V)
 Ex: M5-50E, M5-200U