



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. USB output is provided for data collection purposes.

The gauges are overload protected to 200% of capacity. An ergonomic, reversible aluminum housing allows for hand held use or fixture mounting, rugged enough for applications in both production and laboratory environments. Series 2 gauges are directly compatible with Mark-10 test stands and grips.



USB port for data communication



► Shown with an ES20 test stand and G1061 wedge grips

Features

- Calculates peak tension and compression values
- USB data output of continuous or individual data points
- 3 selectable units of measurement
- Ultra-compact, ergonomic housing
- Configurable default measurement unit and mode
- 500 Hz sampling rate
- Large, backlit graphic display with auto-dimming
- Powered by rechargeable battery or AC adapter
- Reversible housing for alternate load cell orientation

Display Indicators

Tension / compression indicator

Battery / AC indicator

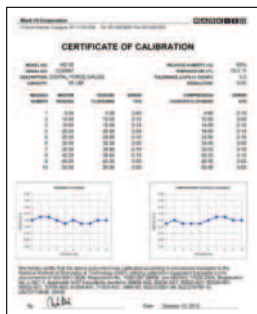


Current reading

Unit of measurement (lbF, kgF, N)

Measurement mode (real-time, peak compression, peak tension)

Optional Items

**Certificate of calibration**

Includes 10 data points in the tension and compression directions. NIST-traceable.

**Attachments**

Available individually or as kits. Select from hooks, flats, cones, chisels, v-grooves, and extension rods.

In The Box



Series 2 force gauges are shipped as shown above, and includes the following accessories:

- (1) Carrying case
- (1) AC adapter
- (1) USB cable
- (1) Certificate of conformance

Ordering Information - Gauges

Model	Capacity x Resolution		
	lbF	kgF	N
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

Ordering Information - Optional Items

For All Series 2 Gauges	
CERT	Certificate of calibration with data

For M2-2 - M2-100 Gauges	
G1038	Medium hook, #10-32M (requires G1039)
G1039	Coupling, #10-32F/F
G1029	Flat head, #10-32F
G1026	Cone, #10-32F
G1025	Chisel point, #10-32F
G1027	V-groove, #10-32F
G1024	Extension rod, 5", #10-32F
23-1031-2	Attachments kit (qty. 1 of G1038 through G1024)

For M2-200 - M2-500 Gauges	
G1035	Large hook, 5/16-18M (requires G1037)
G1037	Coupling, 5/16-18F/F
G1036	Flat head, 5/16-18F
G1033	Cone, 5/16-18F
G1032	Chisel point, 5/16-18F
G1034	V-groove, 5/16-18F
G1031	Extension rod, 5", 5/16-18F
23-1031-3	Attachments kit (qty. 1 ea. of G1035 through G1031)

Alternative AC Adapter Prongs



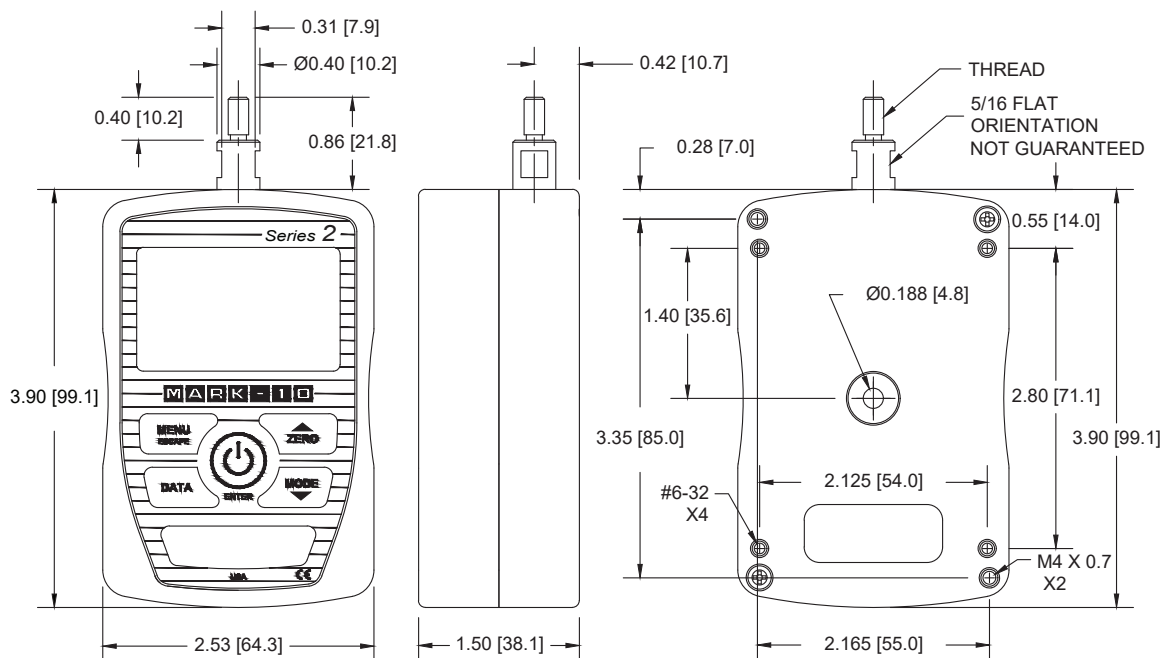
All instruments include a 110V AC adapter with US prong style. Select an alternative prong adapter (if required) from the table below.

Model	Description
AC1120	Prong for AC adapter, 220V EUR
AC1121	Prong for AC adapter, 220V UK
AC1122	Prong for AC adapter, 220V AUS

Specifications

Accuracy:	±0.5% of full scale
Sampling Rate:	500 Hz
Power:	AC adapter: 100-240VAC, 50-60 Hz, 0.3 A Battery: Rechargeable 8.4V NiMH Low battery indicator appears when battery level is low, and gauge powers off automatically when power reaches critical stage.
Battery life:	Backlight on: Up to 7 hours of continuous use Backlight off: Up to 24 hours of continuous use
USB output:	Configurable to 115,200 baud.
Safe overload:	200% of full scale (display shows "OVER" at 110% and above)
Weight:	M2-2 – M2-100: 0.7 lb [0.33 kg] M2-200 – M2-500: 0.9 lb [0.41 kg]
Load cell deflection:	All models 0.010 [0.25], except 0.005 [0.13] for M3-012, at full scale
Environmental requirements:	40 - 100°F, max. 96% humidity, non-condensing
Warranty:	3 years (see individual statement for further details)

Dimensions in [mm]



	Thread
M2-2 – M2-100	#10-32 UNF
M2-200 – M2-500	5/16-18 UNC