



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

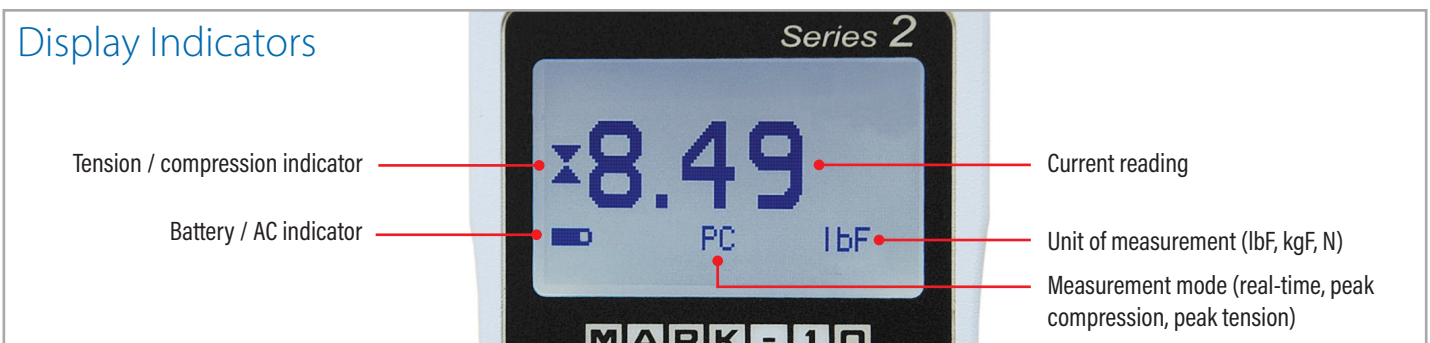


► Shown with an ES20 test stand and G1061 wedge grips

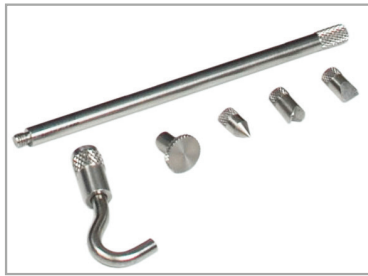
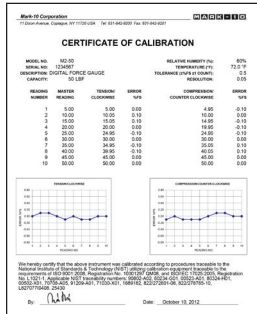
## Features

- 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



## Optional Items



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

**Certificate of calibration**  
Includes 10 data points in the tension and compression directions. NIST-traceable.

## 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



AC1120



AC1121



AC1122

## 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

## 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 - Optional Items

For All Series 2 Gauges	
<b>CERT</b>	Certificate of calibration with data

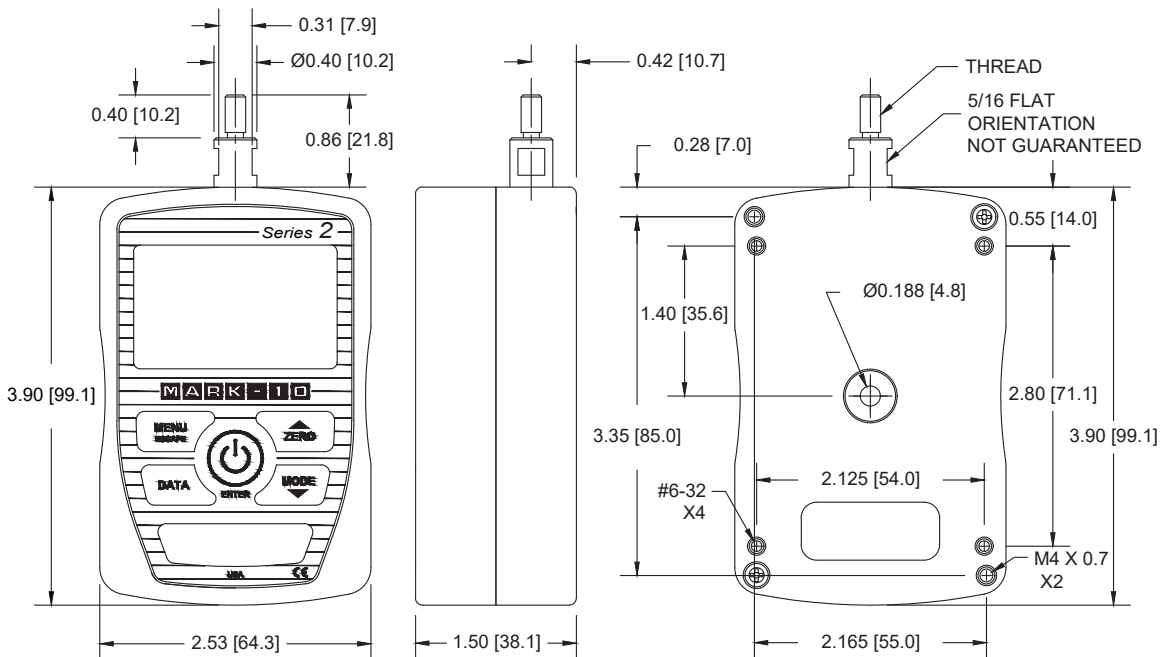
For M2-2 - M2-100 Gauges	
<b>G1038</b>	Medium hook, #10-32M (requires G1039)
<b>G1039</b>	Coupling, #10-32F/F
<b>G1029</b>	Flat head, #10-32F
<b>G1026</b>	Cone, #10-32F
<b>G1025</b>	Chisel point, #10-32F
<b>G1027</b>	V-groove, #10-32F
<b>G1024</b>	Extension rod, 5", #10-32F
<b>23-1031-2</b>	Attachments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

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

## Specifications

<b>Accuracy:</b>	±0.5% of full scale
<b>Sampling Rate:</b>	500 Hz
<b>Power:</b>	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.
<b>Battery life:</b>	Backlight on: Up to 7 hours of continuous use Backlight off: Up to 24 hours of continuous use
<b>USB output:</b>	Configurable to 115,200 baud.
<b>Safe overload:</b>	200% of full scale (display shows "OVER" at 110% and above)
<b>Weight:</b>	M2-2 - M2-100: 0.7 lb [0.33 kg] M2-200 - M2-500: 0.9 lb [0.41 kg]
<b>Environmental requirements:</b>	40 - 100°F, max. 96% humidity, non-condensing
<b>Warranty:</b>	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