Economical Digital Force Gauges Series 2

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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.

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.



Shown with the included cushioned shipping carton and optional accessories



Features

- Calculates peak tension and compression values
- 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

> Shown with an ES20 test stand with G1061 wedge grips







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Data Sheet

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Optional Items



Carrying case

Cushioned hard plastic carrying case provides storage space for the gauge, AC adapter, and attachments.



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.

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 | |

In The Box



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

- (1) Cushioned shipping box
- (1) AC adapter
- (1) Battery
- (1) Certificate of conformance

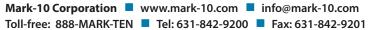
Ordering Information - Optional Items

| For All Series 2 Gauges | | |
|-------------------------|--------------------------------------|--|
| CERT | Certificate of calibration with data | |
| 12-1049 | Carrying case | |

| 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) | |







Data Sheet

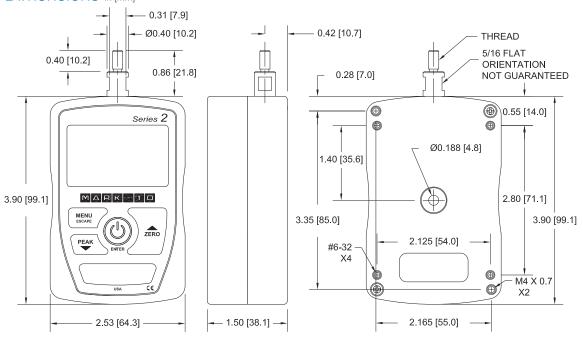
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Specifications

| Accuracy: | $\pm 0.5\%$ 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 | |
| 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] | |
| 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 |



