

32-1044 REV 3



The Series MG Digital Force Gauge is an economical instrument for push and pull testing up to 500 lbF (2,500 N). A rugged reversible aluminum housing allows for hand-held use or test stand mounting. Three pushbuttons allow the user to easily select units of measurement, reset zero, and recall tensile and compressive peak loads. The MG is compatible with all Mark-10 force measurement test stands and gripping fixtures.

## Specifications

|                                       |   |
|---------------------------------------|---|
| Accuracy:                             | ±0.5% of full scale   |
| Power:                                | AC or non-rechargeable 9V battery, with Intelligent Power Management System (IPM). IPM warns the user via a "LO BAT" indicator and then will power off the gauge. |
| Battery life:                         | 30 hours of continuous use  |
| Selectable units of measurement:      | lbF, N, kgF/gF (depending on model)   |
| Load cell deflection (at full scale): | See Ordering Information  |
| Safe overload:                        | 150% of full scale (display shows "----" at 110% and above)   |
| Weight (gauge only):                  | MG012 - MG200: 0.7 lb [0.3 kg], MG500: 0.87 lb [0.4 kg]   |
| Environmental requirements:           | 40° F - 100° F [5°C - 45°C], <96% humidity (non-condensing)   |
| Housing construction:                 | Aluminum  |
| Included accessories:                 | Hook, flat  |
| Warranty                              | 3 years (see individual statement for further details)  |

## Features

|                         |  |
|-------------------------|--|
| Compact design          | Portable and flexible in a wide range of applications  |
| Push-button calibration | Simple and quick calibration procedure                 |
| Peak memory             | For tension and compression                            |
| Reversible housing      | Housing can be reversed for handheld or test stand use |

## Ordering Information

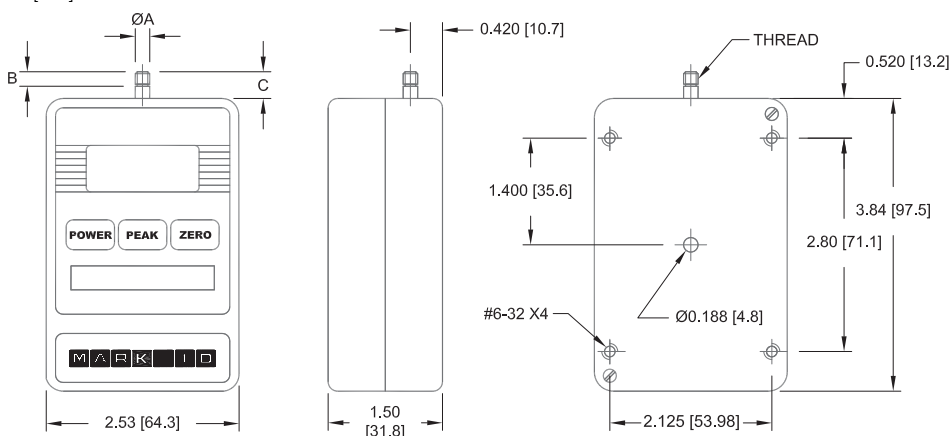
| Model No. | Capacity x Resolution                                 | Deflection   |
|-----------|---|--------------|
| MG012     | 0.12 x 0.0001 lbF, 50 x 0.05 gF, 0.5 x 0.0005 N, 110V | 0.005 [0.13] |
| MG025     | 0.25 x 0.0002 lbF, 100.00 x 0.1 gF, 1 x 0.001 N, 110V | 0.010 [0.25] |
| MG05      | 0.5 x 0.0005 lbF, 250 x 0.2 gF, 2.5 x 0.002 N, 110V   | 0.010 [0.25] |
| MG2       | 2 x 0.002 lbF, 1 x 0.001 kgF, 10 x 0.01 N, 110V       | 0.009 [0.23] |
| MG5       | 5 x 0.005 lbF, 2.5 x 0.002 kgF, 25 x 0.02 N, 110V     | 0.005 [0.13] |
| MG10      | 10 x 0.01 lbF, 5 x 0.005 kgF, 50 x 0.05 N, 110V       | 0.010 [0.25] |
| MG20      | 20 x 0.02 lbF, 10 x 0.01 kgF, 100 x 0.1 N, 110V       | 0.004 [0.10] |
| MG50      | 50 x 0.05 lbF, 25 x 0.02 kgF, 250 x 0.2 N, 110V       | 0.010 [0.25] |
| MG100     | 100 x 0.1 lbF, 50 x 0.05 kgF, 500 x 0.5 N, 110V       | 0.010 [0.25] |
| MG200     | 200 x 0.2 lbF, 100 x 0.1 kgF, 1000 x 1 N, 110V        | 0.010 [0.25] |
| MG500     | 500 x 0.5 lbF, 250 x 0.2 kgF, 2500 x 2 N, 110V        | 0.010 [0.25] |

All models include 110V AC adapters. Add suffix 'E' for euro plug (220V), 'U' for UK plug (220V), or 'A' for Australian plug (220V).

Ex: MG-50E, MG-200U, MG-500A

## Dimensions

in [mm]



|        | MG012 - MG200 | MG500       |
|--------|---------------|-------------|
| ØA     | 0.200 [5.8]   | 0.375 [9.5] |
| B      | 0.19 [4.8]    | 0.44 [11.2] |
| C      | 0.35 [8.9]    | 0.68 [17.3] |
| Thread | #10-32        | 5/16-18     |



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Specifications subject to change without prior notice