

32-1043 REV 0



The Series EG is an ideal instrument for compression and tension applications requiring accuracy and flexibility up to 500 lbf. Features include selectable units of measurement, automatic peak memory, simple pushbutton calibration, programmable automatic shutoff, initial status of units and mode of operation, permanent configuration memory, and optional outputs (RS-232, Mitutoyo, and analog). Reversible aluminum housing allows for hand-held use or test stand mounting.

## Specifications

Accuracy:	±0.3% of full scale ±1 digit
Sampling rate:	30 readings/s
Display rate:	2.5 updates/s in normal mode / 30 updates/s in peak mode
Power:	AC or rechargeable 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:	8-10 hours of continuous use
Selectable units of measurement:	lbf, N, kg/g (depending on model)
Outputs:	Optional
RS-232	Fully configurable up to 9600 baud
Mitutoyo (Digimatic)	Serial BCD suitable for all Mitutoyo SPC-compatible devices
Analog	±1 VDC, ±0.25% of full scale at capacity. + for compression, - for tension.
Configurable settings:	RS-232, Mitutoyo BCD, automatic shutoff, initial (default), calibration
Load cell deflection:	0.010 in [0.25 mm] at full capacity
Safe overload:	150% of full scale (display shows "----" at 110% and above)
Weight (gauge only):	EG012 - EG200: 0.95 lb [0.4 kg], EG500: 1.12 lb [0.5 kg]
Environmental requirements:	40°F - 100°F [5°C - 45°C], <96% humidity (non-condensating)
Thermal effects:	Zero: 0.03% of full scale/°C, Span: 0.01% of full scale/°C
Housing construction:	Aluminum
Included accessories:	Hook, flat

## Features

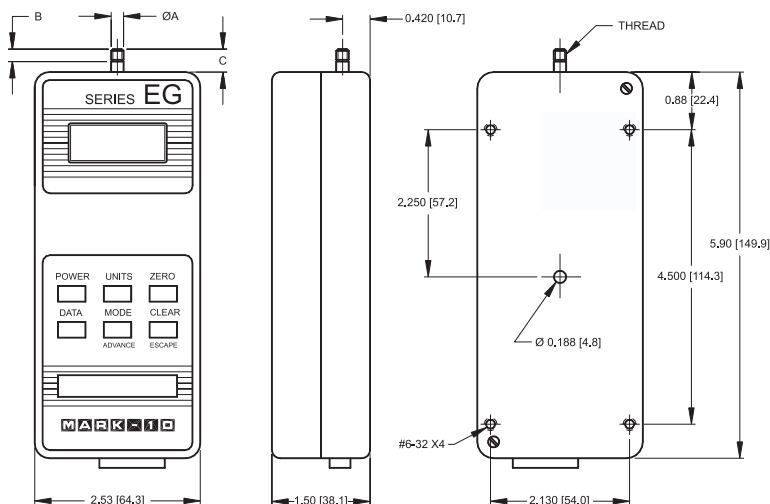
Data outputs	Optional RS-232, Mitutoyo (Digimatic), and analog outputs.
Push-button calibration	Simple and quick calibration procedure
Peak memory	For tension and compression
Selectable units of measurement	Measure in lbf, kg/g, or N (depending on model)
Customizable default configuration	Set filters, communications settings, measurement settings, mode of operation, and more

## Optional Equipment

Outputs package	RS-232, Mitutoyo (Digimatic), and analog outputs. Available at time of purchase or as an upgrade.
EGRS	
Output cables	Various data output cables are available
Overload protection module 11-1042	Protects the force gauge against overloads during motorized tests, adjustable from 10% to 150% of gauge's full capacity. For use with motorized test stands. Requires EGRS.

## Dimensions

in [mm]



	EG012 - EG200	EG500
ØA	0.200 [5.8]	0.312 [7.9]
B	0.19 [4.8]	0.44 [11.2]
C	0.35 [8.9]	0.31 [7.9]
Thread	#10-32	5/16-18

## Ordering Information

Model No.	Capacity x Resolution
EG012	0.12 x 0.0001 lbf, 50 x 0.05 gF, 0.5 x 0.0005 N, 110V
EG025	0.25 x 0.0001 lbf, 100 x 0.05 gF, 1 x 0.0005 N, 110V
EG05	0.5 x 0.0002 lbf, 250 x 0.1 gF, 2.5 x 0.001 N, 110V
EG2	2 x 0.001 lbf, 1 x 0.0005 kgF, 10 x 0.005 N, 110V
EG5	5 x 0.002 lbf, 2.5 x 0.001 kgF, 25 x 0.01 N, 110V
EG10	10 x 0.005 lbf, 5 x 0.002 kgF, 50 x 0.02 N, 110V
EG20	20 x 0.01 lbf, 10 x 0.005 kgF, 100 x 0.05 N, 110V
EG50	50 x 0.02 lbf, 25 x 0.01 kgF, 250 x 0.1 N, 110V
EG100	100 x 0.05 lbf, 50 x 0.02 kgF, 500 x 0.2 N, 110V
EG200	200 x 0.1 lbf, 100 x 0.05 kgF, 1000 x 0.5 N, 110V
EG500	500 x 0.2 lbf, 250 x 0.1 kgF, 2500 x 1 N, 110V

For 220V operation, add suffix E to model number. Example: EG50E