The RG smart load cell is a plug-and-play force measurement building block designed for integration within assembly systems, weighing systems, and other process automation and testing automation applications. All functions are controlled by commands sent from a PC or PLC via its RS-232 connector. The RG's ASCII command library allows for peak force recall, set points, data averaging, data filtering, calibration, and many other functions. A rugged aluminum housing makes the RG durable enough to withstand the rigors of manufacturing environments. Capacities are available from 2 to 200 lbF (10 to 1,000 N).
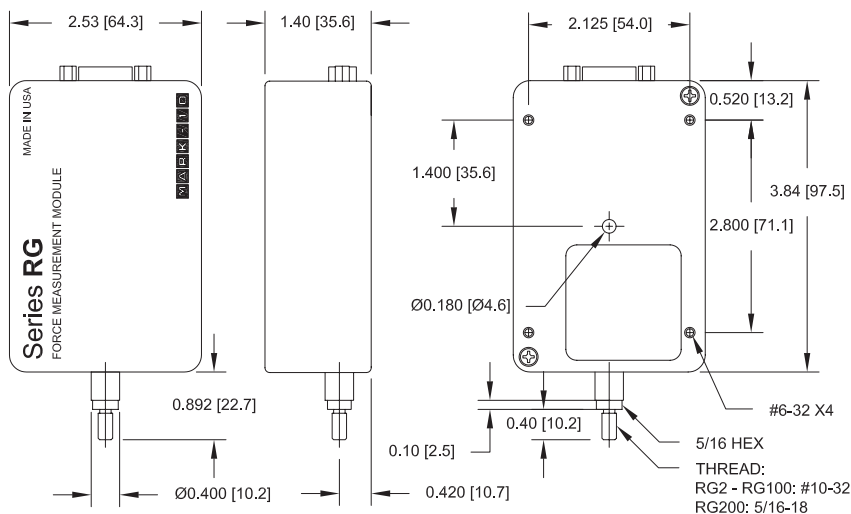
Features

- Measures tension and compression forces
- Dedicated force limit outputs for direct hardware control (relays, etc)
- RS-232 and Mitutoyo outputs
- GCL-Gauge Control Language for full computer control
- Averaging mode for average readings over time
- External trigger for contact or switch testing and data capture
- General purpose I/O for external device control
- Programmable digital filters
- Selectable units of measurement
- Programmable default configuration
- Peak memory for tensile and compressive forces
- Power via 9 - 12 VDC
- Same housing size for all capacities
- Optional cable with bare leads for integration with PC/PLC and external power supply

Specifications

- Accuracy: ± 0.5% of full scale
- Safe overload: 150% of capacity
- Weight: 0.55 lb (0.25 kg)
- Environmental requirements: 40°F - 100°F [5°C - 45°C], <96% humidity (non-condensating)
- Warranty: 3 years
- CE mark

Dimensions in [mm]

Ordering Information

Model No.	Capacity x Resolution	Load Cell Deflection
RG2	2 x 0.002 lb, 1 x 0.001 kgF, 10 x 0.01 N	0.009 [0.23]
RG5	5 x 0.005 lb, 2.5 x 0.002 kgF, 25 x 0.02 N	0.005 [0.13]
RG10	10 x 0.01 lb, 5 x 0.005 kgF, 50 x 0.05 N	0.010 [0.25]
RG20	20 x 0.02 lb, 10 x 0.01 kgF, 100 x 0.1 N	0.004 [0.10]
RG50	50 x 0.05 lb, 25 x 0.02 kgF, 250 x 0.2 N	0.010 [0.25]
RG100	100 x 0.1 lb, 50 x 0.05 kgF, 500 x 0.5 N	0.010 [0.25]
RG200	200 x 0.2 lb, 100 x 0.1 kgF, 1000 x 1 N	0.010 [0.25]
09-1161	Interface cable, RG to bare leads	

3 YEAR WARRANTY