

Basic Force Gauge

The Basic Force Gauge (BFG) is designed for easy operation and provides outstanding tension and compression measurement performance and reliability at an affordable price.

easy-to-use
robust
ergonomic

Constructed in a rigid yet lightweight aluminium housing, with its ergonomically attractive shape, the BFG can be used as a hand-held instrument, or alternatively it can be mounted to manual or motorised test stands to allow testing under more controlled conditions.



BFG shown mounted to the MDD manual test stand



Captures peak readings in tension or compression

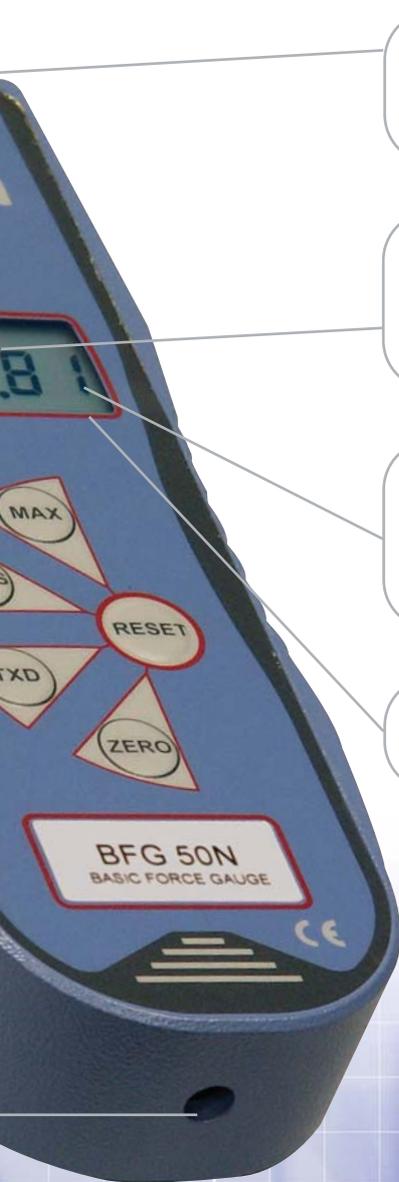
Rugged metal housing
Ideal for factory or outdoor use

Internal loadcell stud for quick and easy change of accessories and fixtures
Loadcell stud 10-32 UNF male (5/16 UNC male BFG 1000N & 2500N)

BFG Specification Table

Model	Part No	mN	N	kN	gf	kgf	ozf	lbf
BFG 10	853 - 410	10,000 x 2	10 x 0.002	-	1,000 x 0.2	1 x 0.0002	35 x 0.01	2.2 x 0.0005
BFG 50	853 - 411	50,000 x 10	50 x 0.01	-	5,000 x 1	5 x 0.001	180 x 0.05	11 x 0.002
BFG 200	853 - 412	-	200 x 0.05	-	20,000 x 5	20 x 0.005	720 x 0.2	44 x 0.01
BFG 500	853 - 413	-	500 x 0.1	-	50,000 x 10	50 x 0.01	1,800 x 0.5	110 x 0.02
BFG 1000	853 - 414	-	1,000 x 0.2	1 x 0.0002	-	100 x 0.02	3,500 x 1	220 x 0.05
BFG 2500	853 - 417	-	2,500 x 0.5	2.5 x 0.0005	-	250 x 0.05	9,000 x 2	550 x 0.1

- Accuracy $\pm 0.25\%$ of full scale
- Calibration temperature $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Operating temperature $10^{\circ}\text{C} - 35^{\circ}\text{C}$



RS232, Mitutoyo, Analogue data output for easy data transmission

'Live' display mode for applications requiring loads to be continuously monitored

Measurements made in N, kN, mN, lbf, ozf, kgf and gf with a sampling rate of 1000Hz

Accurate to $\pm 0.25\%$ full-scale

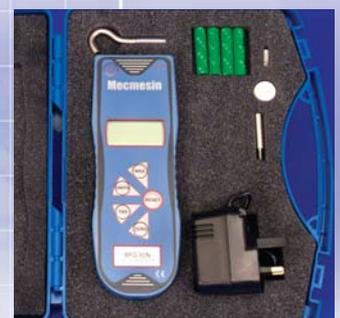
KEY FEATURES:

- 6 capacities - from 10N up to 2500N
- Full unit conversion of displayed value
- Powered by 4 nickel metal hydride rechargeable batteries
- M5 mounting holes (57mm pitch) for test stand fixing
- Wide range of grips and fixtures

All models carry CE marking and are supplied in a robust carrying case with standard accessories and a calibration certificate traceable to UK national standards.



Top-load test



BFG with accessories