

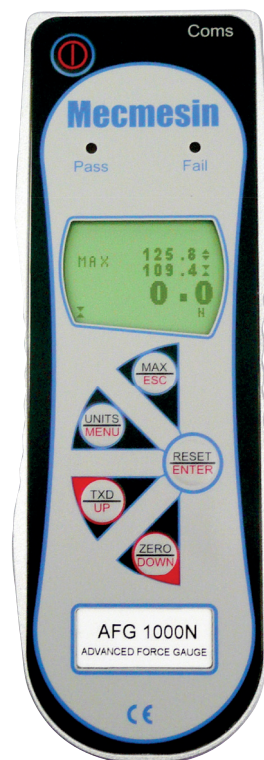
AFG

The advanced force gauge

The Advanced Force Gauge (AFG) can be used hand-held or fixed to a motorised test stand to allow testing under controlled speed conditions. The AFG is fitted with a high-precision "internal" loadcell accurate to $\pm 0.1\%$ of full scale. For added flexibility the AFG is able to recognise data from a range of external 'Smart' force and torque sensors, so you can use it as a universal display for remote applications



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RS232, Mitutoyo, Analogue data output for easy data transmission. A calibrated analogue output can be supplied as an option

Audible & visual pass/fail alarms set a threshold for immediate alert when limits are exceeded.

Measurements made in N, kN, mN, lbf, ozf, kgf and gf with a sampling rate of 5000 Hz

Recognises data from a range of external 'Smart' force & torque sensors

Reversible display - view readings even when the gauge is positioned away from you

View the 1st peak and ultimate peak readings On-board memory stores up to 500 readings

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 for AFG 1000 N & 2500 N)



- Accuracy $\pm 0.1\%$ of full-scale
- 10 capacities - from 2.5 N to 2500 N
- Peak capture - Ultimate max + 1st peak
- Data output - RS232, digimatic and analogue
- Pass/Fail Alarms - audible and visual
- Overload warning with trend bar
- Wide range of grips and fixtures

AFG Specification Table – Capacity

Resolution - Up to 1:5,000 resolution depending on load cell capacity (e.g. 2500 N x 0.5 N)

Model	Part No.	mN	N	kN	gf	kgf	ozf	lbf
AFG 2.5	850-412	2500 x 0.5	2.5 x 0.0005	-	250 x 0.05	-	9 x 0.002	0.55 x 0.0001
AFG 5	850-413	5000 x 1	5 x 0.001	-	500 x 0.1	0.5 x 0.0001	18 x 0.005	1.1 x 0.0002
AFG 10	850-414	10000 x 2	10 x 0.002	-	1000 x 0.2	1 x 0.0002	35 x 0.01	2.2 x 0.0005
AFG 25	850-415	25000 x 5	25 x 0.005	-	2500 x 0.5	2.5 x 0.0005	90 x 0.02	5.5 x 0.001
AFG 50	850-416	50000 x 10	50 x 0.01	-	5000 x 1	5 x 0.001	180 x 0.05	11 x 0.002
AFG 100	850-417	-	100 x 0.02	-	10000 x 2	10 x 0.002	350 x 0.1	22 x 0.005
AFG 250	850-418	-	250 x 0.05	-	25000 x 5	25 x 0.005	900 x 0.2	55 x 0.01
AFG 500	850-419	-	500 x 0.1	-	50000 x 10	50 x 0.01	1800 x 0.5	110 x 0.02
AFG 1000	850-420	-	1000 x 0.2	1 x 0.0002	-	100 x 0.02	3500 x 1	220 x 0.05
AFG 2500	850-421	-	2500 x 0.5	2.5 x 0.0005	-	250 x 0.05	9000 x 2	550 x 0.1

- Accuracy $\pm 0.1\%$ of full scale*
- Full scale deflection of loadcell typically 0.5 mm
- Operating temperature 10°C - 35°C
- * See Mecmesin.com for more information



AFG shown mounted to the motorised MultiTest 2.5-dV test stand