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Advanced Force Gauge

Outstanding accuracy combined with extensive features

The Advanced Force Gauge (AFG) is the most versatile and fully-featured digital force gauge on the market. It can be used hand-held or fixed to a manual or motorised test stand to allow testing under controlled speed conditions. The AFG is fitted with a high-precision “internal” loadcell accurate to ±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 (see pages 5 to 10).

Key Features:

- **Accuracy ±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**

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

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

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

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

Recognises data from a range of external force & torque transducers see pages 5-10

Rugged metal housing ideal for factory or outdoor use

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

Highly Accurate to ±0.1% full-scale

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)



AFG Specification Table - Capacity & Resolution (eg 250 N x 0.05 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 ±0.1% of full scale
- Full scale deflection of loadcell typically 0.5 mm
- Operating temperature 10°C - 35°C



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

The dual level design of the keypad ensures that operation of this powerful gauge is simple, thereby making it ideal for use from production shop floor to R&D.

Housed in an ergonomically shaped, rugged aluminium case, the AFG is powered by either mains-adaptor or standard rechargeable AAA batteries.

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.

See page 14 for details of accessories supplied.

versatile
rugged
accurate



Pull test on anchorage points



Compression test on medical device



AFG and accessories shown in carry case

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