



METROLOGY SOLUTIONS

The DFG is our basic digital force gage with a measurement accuracy of 0.2% full scale. The gage is ideal for peak measurements in either tension or compression directions.

The DFG features an internal data sampling rate of 10Hz and can communicate to external devices using USB and RS-232. Display resolution is 5,000:1.

Save up to 50 test results in internal memory. View historical and statistical results.

The DFG features a high-resolution 320 x 240 pixel color display with an adjustable backlight. The instrument is powered using a lithium ion battery. The gage is charged using the standard USB cable supplied. Information can be displayed in multiple languages: English, Deutsch, Portugues, Spanish, French, Italian, Chinese and more.

The DFG is supplied with a full set of testing adapters, USB cable and a NIST-traceable certificate of calibration. The DFG has a standard 3-year warranty.

Cussification	DEC			
Specification	DFG			
Accuracy, Full Scale	0.20%			
Data Sampling (Hz)	10,000			
Display Resolution	5,000:1			
Safe Overload, Full Scale	200%			
Maximum Tare	10%			
Communications				
USB 2.0	Yes			
RS-232	Yes			
Memory, saved results max.	50			
Operating Mode				
Real Time	Yes			
Peak Compression	Yes			
Peak Tension	Yes			
Power, Environmental				
Battery Type	Lithium Ion			
Battery Life, @ 20% brightness	>30 hours			
Charge Time, using 110/240V	<3 hours			
Display (OLED)	320 x 240			
Operating Temperature	40°F to 110°F (4°C to 43°C)			
Thread, for adapters (Metric)	M6, M10			
Instrument Weight (approx.)	3 lbs (1.36 kgs)			
CE Compliance	` ,			
EN61010-1				
Safety for Electrical Equipment				
EN61000-6-3				
EMC Generic Emissions				
EN61000-6-1				
EMC Generic Immunity				







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FOR BASIC TESTING APPLICATIONS

The DFG Digital Force Gage can be used as a handheld force gage for basic applications or with a FMM Digital Force Tester, or our MTL and MTH Manual Testers. Listed are the various test methods that can be performed:

- Real Time Measure real time forces. The gage will display the currently applied force and automatically capture peak forces in both tensile or compression directions.
- Peak Tension Testing The peak tension mode captures the maximum load applied in the tensile direction. The gage displays tolerances and will provide a "pass" or "fail" based on the measurement.
- · Peak Compression Testing The compression mode captures the maximum load applied in the compression direction. The gage is ideal for testing springs using the MTH manual tester with the digital scale option.

DFG - Advanced Force Controller										
	Load Capacity				Full Scale Deflection		Thread	Accessory		
Model	N	KGF	LBF	0ZF	GF	in	mm	mm	Kit	
DFG-10	50	5	10	160	5000	0.006	0.15	M6 x 1-6H	SPK-FG-S	
DFG-20	100	10	20	320	9000	800.0	0.20	M6 x 1-6H	SPK-FG-S	
DFG-50	250	25	50	800	23,000	0.015	0.39	M6 x 1-6H	SPK-FG-S	
DFG-100	500	50	110	1600	45,000	0.024	0.60	M6 x 1-6H	SPK-FG-S	
DFG-200	1000	100	225	-	-	0.021	0.54	M6 x 1-6H	SPK-FG-M	
DFG-500	2500	250	550	-	-	0.028	0.70	M10 x 1.5-5H	SPK-FG-L	

NOTES

Load measurement accuracy is $\pm 0.2\%$ of load cell capacity. Display resolution is 5,000:1.









