

# Comparison Chart - Force Gauges

REV 2



	BG	CG	EG	MG
Accuracy (% of full scale)	±0.2% ± 1 digit		±0.3% ± 1 digit	±0.5% ± 1 digit
Power	AC or rechargeable battery. Includes Intelligent Power Management System (IPM). IPM warns the user via a "LO BAT" indicator and then will power off the gauge.			AC or non-rechargeable battery, includes IPM
Battery life	8-10 hours of continuous use per charge			30 hours of continuous use
Peak capture	Yes, in tension and compression (cw and ccw for torque gauges)			
Units of measurement	lb, g / kg, N, selectable			
Outputs	Standard		Optional	N/A
RS-232	Fully configurable up to 9600 baud. Includes Gauge Control Language (GCL).		Fully configurable up to 9600 baud.	N/A
Mitutoyo (Digimatic)	Serial BCD suitable for all Mitutoyo SPC-compatible devices			N/A
Analog	±1 VCD, ±0.25% of full scale at capacity. Positive for compression, negative for tension.			N/A
General purpose I/O	Three open collector outputs and one input (utilizing Mitutoyo lines)		N/A	
Set point	Three open collector lines (utilizing Mitutoyo lines)		N/A	
Configurable Settings	Analog filters, digital filters, outputs selection, automatic output (RS-232), automatic shutoff, initial (default), averaging mode, calibration		Outputs selection, automatic shutoff, initial (default), calibration	N/A
Load cell deflection (in [mm], at full scale)	0.005 - 0.010 [0.13 - 0.25]*	0.030 [0.76]	0.005 - 0.010 [0.13 - 0.25]*	
Safe overload	150% of full scale (display shows "----" at 110% and above)			
Weight (gauge only)	BG012 - BG200: 0.95 lb [0.4 kg] BG500: 1.12 lb [0.5 kg]	All capacities: 1.8 lb [0.8 kg]	EG012 - EG200: 0.95 lb [0.4 kg] EG500: 1.12 lb [0.5 kg]	MG025 - MG200: 0.7 lb [0.3 kg] MG500: 0.87 lb [0.4 kg]
Included items	Carrying case, AC adapter/charger, rechargeable 7.2V battery, NIST-traceable certificate of calibration, chisel, cone, V-groove, hook, flat, extension rod		Carrying case, AC adapter, 9V battery, NIST-traceable certificate of calibration, hook, flat	
Environmental requirements	40°F - 100°F [5°C - 45°C], <96% humidity (non-condensating)			
Thermal effects	Zero: 0.03% of full scale/°C, Span: 0.01% of full scale/°C			
Housing construction	Aluminum, reversible halves for handheld operation or test stand mounting			

\* Refer to individual data sheets for deflection specifications