FGE with FGS-50PXH horizontal motorized test stand

FGE with FGS-5S lever operated vertical test stand
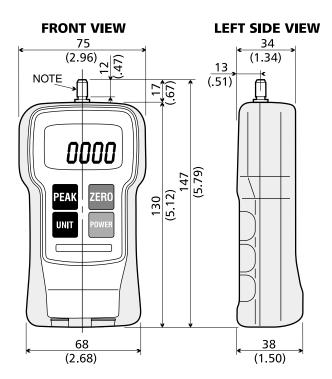
FGV & FGE Series

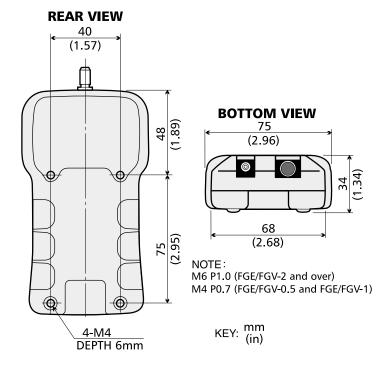*Our "workhorse" gauge - dozens of features in a small package!*

Ergonomically designed to fit in the palm of your hand, the rugged, all metal construction of the microprocessor-controlled FGV and FGE series permits accurate measurement of compression and tension forces up to 100 pounds (force testing 0-500 pounds is available using the FGV-H and FGE-H series gauges). With the same superior accuracy of the DFS series, the FGV and FGE feature a unique, push-button inverted digital display, permitting the user to read the display in a right side-up fashion. For handheld or test stand mounting use, the FGV and FGE are ideal for R & D, OEM and production floor applications.

The FGV series includes all FGE features plus RS232C and analog outputs and an overload output signal.

Features	Benefits
Reversible display	Permits inverting the gauge for test stand or handheld operation without disassembly of case
Highly accurate (±0.2% F.S.)	Perfect for even the strictest tolerances
Peak measurement	Captured with the push of a button
Rechargeable batteries	Operates continuously for 20 hours when fully charged
Field calibration through keypad	Eliminates down time
Overload capacity: 200% F.S.	High capacity overload protection leads to fewer repairs
Heavy-duty load sensor	Designed for over one million operations
RS232C and analog outputs (FGV models)	Allows flexibility in data collection and function analysis
Overload output signal (FGV models)	Prevents load cell damage by automatically terminating test stand operation
Variable units of measure (lbs, kgs or N)	Easily selected with the touch of a button
Included hanger	Enables gauge to be used as a scale
Rugged die-cast aluminum housing	Exceptional durability; production floor capable
Measures both compression and tension forces	Conveniently determined with the same sensing shaft
Auto power shut-off	Prolongs battery life
Low battery indicator	Provides ample warning to complete testing (3 hours or more)
Ergonomically designed	Fits in the palm of your hand
One year warranty	Peace of mind

FRONT VIEW

75
(2.96)
12 (.47)
NOTE
17 (.67)
130 (5.12)
147 (5.79)
0000
PEAK ZERO
UNIT POWER
68
(2.68)

LEFT SIDE VIEW

34
(1.34)
13
(.51)
38
(1.50)

REAR VIEW

40
(1.57)
48
(1.89)
75
(2.95)
4-M4
DEPTH 6mm

BOTTOM VIEW

75
(2.96)
34
(1.34)
68
(2.68)

NOTE:
M6 P1.0 (FGE/FGV-2 and over)
M4 P0.7 (FGE/FGV-0.5 and FGE/FGV-1)

KEY: mm (in)

FGV & FGE SPECIFICATIONS

FGV Model	FGV-0.5	FGV-1	FGV-2	FGV-5	FGV-10	FGV-20	FGV-50	FGV-100
FGE Model	FGE-0.5	FGE-1	FGE-2	FGE-5	FGE-10	FGE-20	FGE-50	FGE-100
Capacity	8 oz 200 g 2 N	16 oz 500 g 5 N	2 lb 1000 g 10 N	5 lb 2 kg 20 N	10 lb 5 kg 50 N	20 lb 10 kg 100 N	50 lb 20 kg 200 N	100 lb 50 kg 500 N
Resolution	0.01 oz 0.1 g 0.001 N	0.01 oz 0.1 g 0.001 N	0.001 lb 1 g 0.01 N	0.001 lb 0.001 kg 0.01 N	0.01 lb 0.001 kg 0.01 N	0.01 lb 0.01 kg 0.01 N	0.01 lb 0.01 kg 0.1 N	0.1 lb 0.01 kg 0.1 N
Accuracy	±0.2% F.S. + 1/2 digit at 73°F (23°C)							
Display	Four digit LCD, .47" high (12 mm) with various indicators including tension and low battery indication (reversible)							
Average/Peak Mode	Selectable							
Display Update	0.3 sec							
Sampling Rate	35/sec							
Overload Capacity	200% of F.S.							
Power	Rechargeable Ni-Cad batteries (included) last approximately 20 hours in continuous operation when fully charged AC adapter/charger (included) for continuous use							
Auto Power Shut-Off	Yes (not active if adapter/charger is in use)							
Operating Temperature Range	32° - 104°F (0° - 40°C)							
Dimension / Weight	5.1" L x 2.9" W x 1.5" H (130 mm x 75 mm x 38 mm) / 1 lb (450 g)							
Standard Accessories	AC adapter/charger, carrying case and 7 attachments (flat head, hook, chisel, notched head, cone head, extension rod and hanger) The FGV also includes an analog output cable (see "FGV OUTPUT SPECIFICATIONS" chart below)							
OPTIONAL ACCESSORIES	Handle and additional attachments RS232C cable is available for the FGV (see "FGV OUTPUT SPECIFICATIONS" chart below)							

FGV OUTPUT SPECIFICATIONS

RS232C Output Port	Baud rate: 2400 bps	Data length: 8 bits	Stop bit: 1 bit	Parity: none	Software flow control: none
Analog Output Port	±1 VDC output (through a 12 bit D/A converter)				
Overload Output	One NPN OC transistor for tension, one NPN OC transistor for compression				