

The FGV-X series of force gauges is a versatile family of instruments incorporating all the functions of the FGE series plus additional features for the convenience of the user.

The FGV-X series offers eight models covering ranges from a few ounces up to 100lbs.

The most important feature of the series is that it offers an RS232C port for transferring data to a PC or other media responding to RS232C signals. Also, an analog signal ( $\pm 1$ VDC) is available for recording purposes. This signal is generated by a 12 bit D/A converter which means the response time is high and the voltage very linear with respect to the applied force.

For the gauge's own protection (when it is used with a motorized stand or other machinery) two NPN OC transistors are available to create a "shutdown" signal for an overload condition, one for tension and one for compression.

For accuracy, economy, versatility, ease of operation, and ability to communicate with the outside world, choose a model from this fine family of instruments.



FGV SERIES SPECIFICATIONS							
Model	FGV0.5X	FGV1X	FGV2X	FGV10X	FGV20X	FGV50X	FGV100X
<b>Capacity</b>	8oz (.5lb) 200g 2N	16oz (1lb) 500g 5N	2lb 1000g 10N	10lb 5Kg 50N	20 lb 10 Kg 100 N	50lb 20Kg 200N	100lb 50Kg 500N
<b>Resolution</b>	0.01 oz 0.1g 0.001 N	0.01 oz 0.1g 0.001 N	0.001lb 1g 0.01N	0.01lb 0.001Kg 0.01N	0.01 lb 0.01 Kg 0.1 N	0.01lb 0.01Kg 0.1N	0.1lb 0.01Kg 0.1N
<b>Accuracy</b>	$\pm 0.2\%$ FS plus 1/2 digit at 73°F (23°C)						
<b>Display</b>	4-Digit LCD 12 mm high. Reversible by a push of a button. Minus sign for tension. Low battery indication						
<b>Average/Peak Mode</b>	Selectable						
<b>Display Update</b>	0.05, 0.1, 0.2, 0.3, 0.5, 1 sec. selectable						
<b>Sampling Rate</b>	1000 times per second						
<b>Overload</b>	200% of FS						
<b>Power</b>	Rechargeable Ni-Cad batteries or AC through adapter/charger						
<b>Auto Power Off</b>	Yes (not active if adapter/charger is in use)						
<b>Battery Life</b>	12 hrs. when fully charged. 18 hrs. approx. recharge time						
<b>Temperature</b>	32° - 104°F (0° - 40°C)						
<b>Dimensions/Weight</b>	5.1"L x 2.9"W x 1.5" H (130 x 75 x 38) mm 1 lb (450 g)						
<b>Overload Output</b>	One NPN OC transistor for tension, one NPN OC transistor for compression						
<b>Accessories Included</b>	AC adapter/charger, carrying case, hook, chisel, flat head, notched head, hanger, cone head, inch adapter, extension rod and RS-232 output cable						
<b>Accessories Available</b>	Test stands, RS232C cable						
<b>RS232C Output Port</b>	Baud rate: 19200, 9600, 4800, 2400 bps selectable; Data length: 8 bits, Stop bit: 1 bit, Parity: None, Software flow control: none						

- Reversible display and keypad
- Highly accurate ( $\pm 0.2\%$  F.S.)
- Field calibration through keypad
- Overload capacity: 200% F.S.
- Measure both compression and tension forces
- Auto power shut-off
- Ergonomically designed
- 1000 Hz update

Cat. No.	Model	Description
SH28151	FGV0.5X	8 oz Force Gauge
SH28152	FGV1X	16 oz Force Gauge
SH28153	FGV2X	2 lb Force Gauge
SH28155	FGV10X	10 lb Force Gauge
SH28156	FGV20X	20 lb Force Gauge
SH28157	FGV 50X	50 lb Force Gauge
SH28158	FGV 100X	100 lb Force Gauge
NISTFG01	—	NIST Traceable Certificate
NISTFG02	—	NIST Traceable Certificate with Data