

Microprocessor-Controlled Digital Force Gauges

This series of force gauges provides the versatility that is perfect for quality inspections, finished goods testing, R&D, and other force-related applications

Nine models cover ranges from a few ounces up to 200 lb, and can be used as handheld gauges or mounted to a test stand for repeatable test results.

All models feature three types of outputs: USB interface, RS-232 interface, and analog output. Onboard statistics calculations provide fast access to maximum, minimum, average, and standard deviation data. Additional features include 1000-point continuous memory, high/low setpoints, and an open collector output for overload or comparator indication.

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

- Reversible display and keypad
- Highly accurate (0.2% full scale)
- USB, RS-232, and analog outputs
- Field calibration through keypad
- Overload capacity: 200% full scale
- Measure both compression and tension
- Auto power shut-off
- Ergonomically designed
- 1000 Hz update
- 1000-point continuous memory



93961-36

SPECIFICATIONS									
Model No.	FGV-0.5XY	FGV-1XY	FGV-2XY	FGV-5XY	FGV-10XY	FGV-20XY	FGV-50XY	FGV-100XY	FGV-200XY
Capacity	0.5 lb	1 lb	2 lb	5 lb	10 lb	20 lb	50 lb	100 lb	200 lb
	200 g	500 g	1000 g	2 kg	5 kg	10 kg	20 kg	50 kg	100 kg
	2 N	5 N	10 N	20 N	50 N	100 N	200 N	500 N	1000 N
Resolution	0.001 lb	0.001 lb	0.001 lb	0.001 lb	0.01 lb	0.01 lb	0.01 lb	0.1 lb	0.1 lb
	0.1 g	0.1 g	1 g	0.001 kg	0.001 kg	0.01 kg	0.01 kg	0.01 kg	0.1 kg
	0.001 N	0.001 N	0.01 N	0.01 N	0.01 N	0.1 N	0.1 N	0.1 N	1 N
Accuracy	±0.2% full scale								
Display	4-digit LCD, 12-mm high. Reversible by the push of a button. Selectable minus sign for compression or tension. Low battery indication. Standard, Peak, and Comparator modes.								
Display update	0.05, 0.1, 0.2, 0.3, 0.5, 1 sec selectable								
Sampling rate	1000 times per second								
Overload capacity	200% of full scale								
Auto power off	Yes (not active if adapter/charger in use)								
Operating temperature	32 to 104°F (0 to 40°C)								
USB output	Communication to PC with application software (maximum 100 times per second)								
RS-232 output	Communication to PC by special command (maximum 100 times per second)								
Analog output	±1 V, accuracy is ±50 mV through a 12 bit D/A converter								
Comparator output	Open collector output (Max 30 VDC/5 mA), either overload output or comparator output								
Dimensions (L x W x H)	5½" x 3" x 1½" (147 x 76 x 38 mm)								
Power	Rechargeable nickel metal hydride batteries or AC through adapter/charger								
Battery life	8 hrs when fully charged, 16 hrs approximate recharge time								

What's included: AC adapter/charger, carrying case, hook, chisel, flat head, notched head, hanger, cone head, extension rod, and USB cable.

Catalog No.	Model No.	Description
TS-93956-31	FGV-0.5XY	0.5 lb force gauge with USB, RS-232, and analog output
TS-93961-32	FGV-1XY	1 lb force gauge with USB, RS-232, and analog output
TS-93961-33	FGV-2XY	2 lb force gauge with USB, RS-232, and analog output
TS-93961-34	FGV-5XY	5 lb force gauge with USB, RS-232, and analog output
TS-93961-35	FGV-10XY	10 lb force gauge with USB, RS-232, and analog output
TS-93961-36	FGV-20XY	20 lb force gauge with USB, RS-232, and analog output
TS-93961-37	FGV-50XY	50 lb force gauge with USB, RS-232, and analog output
TS-93961-38	FGV-100XY	100 lb force gauge with USB, RS-232, and analog output
TS-93961-39	FGV-200XY	200 lb force gauge with USB, RS-232, and analog output