

The Series FGV-XY DART 2.0 Force Gauges combine a rugged, ergonomic and compact design to provide a complete force testing instrument. These instruments are utilized in a variety of applications such as, incoming quality inspection, finished goods testing, R&D or almost any portable or force stand testing requirement



A **Nidec** Group Company
SHIMPO

Manufacture: Shimpo

SKU: **FGV-10XY**

Weight: 4.00 lb

Free Ground Shipping within the 48 continental US States

Please Call
(800)832-0055

Features

DART 2.0 Digital Force Gauge

Digital Force Gauges with 180° reversible display & dual labeled keypad for both push, pull applications.

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On-board statistical calculations provide fast access to maximum, minimum, average and standard deviation data. Units include the free TORIEMON-USB software and USB cable allowing further data analysis on a PC. The 1,000 point memory allows for data exporting in real time or after testing is complete. In addition, the RS-232C and analog outputs provide the DART 2.0 with maximum communication flexibility. Models are available from 0.5 lbs to 200 lb ranges providing a large offering for various testing requirements.

The 180° reversible display combined with the adjustable force direction and dual labeled keypad enable the FGE-XY to excel in both compression and tension applications in any direction. Typical applications include wallboard, wire pull, wire crimps, trigger pull, brake pedal, aerospace ceramic, springs, food ripeness, corrugated paper strength, blister pack, medical component, muscle strength, ergonomic testing, adhesives, syringe plunger, needle sharpness and many more.

- 1000 Hz Sample Rate provides faster sampling producing better resolution and more accurate results
- High accuracy +/-0.2% F.S., ideal for strict tolerances
- Measure and record compression and tension tests- permits true "push-pull" testing
- 180° Reversible display and dual printed keypad allows usage as a portable gauge or mounted upside down on a test stand
- Maximum data collection flexibility with 3 outputs: USB, RS-232 & Analog Output
- 1 million operation load cell with superior overload protection provides a long-life, damage free product
- Rugged, ergonomic die cast aluminum construction allows usage on production floor
- On board statistics provides immediate results and analysis of test data
- Variable display response rate aids viewing readings
- Expanded memory for reviewing data points and transferring to PC/Laptop
- Built-in Hi-Lo Comparator function provides user with easy 'Go-No Go' Testing

- Quick retrieval of peak measurement with a single push button
- Flexible user preference with one button selection of up to 4 engineering units
- Dual power capable with rechargeable battery or AC line voltage
- Field Calibration through keypad eliminates down time
- CE Mark

Specifications

Model	FGV-0.5XY	FGV-1XY	FGV-2XY	FGV-5XY	FGV-10XY	FGV-20XY	FGV-50XY	FGV-100XY	FGV-200XY
Capacity X Readability	0.5 x 0.001 lb	1 x 0.001 lb	2 x 0.001 lb	5 x 0.001 lb	10 x 0.01 lb	20 x 0.01 lb	50 x 0.01 lb	100 x 0.1 lb	200 x 0.1 lb
	200 x 0.1 g	500 x 0.1 g	1000 x 1 g	2 x 0.001 Kg	5 x 0.001 Kg	10 x 0.01 Kg	20 x 0.01 Kg	50 x 0.01 Kg	100 x 0.1 Kg
	2 x 0.001 N	5 x 0.001 N	10 x 0.01 N	20 x 0.01 N	50 x 0.01 N	100 x 0.1 N	200 x 0.1 N	500 x 0.1 N	1000 x 1 N
	8 x 0.01 oz	16 x 0.01 oz	32 x 0.01 oz	-	-	-	-	-	-
Thread	M4	M4	M6	M6	M6	M6	M6	M6	M6
Accuracy	±0.2% F.S. @ 73°F (23°C)								
Selectable Units	oz, g, kg, N and lb. (Depending on Range)								
Overload Capacity	200% of F.S. (200 lb.: 150% F.S.)								
Data Sampling Rate	1000 Hz								
Display	4-Digit LCD, 0.5" (12 mm) high, Units / 0.29" (7 mm). Reversible by the push of a button. Minus sign for tension								
Display Update Rate	0.05, 0.1, 0.2, 0.3, 0.5, 1 sec								
Power	Rechargeable Ni-MH battery or universal AC adapter/charger (100-240VAC, 50-60Hz)								
Auto Power Shut-Off	Yes (not active if adapter/charge is in use)								
Output	Analog: ±1 VDC (through a 12 bit D/A converter)								
	RS232C: Baud rate (19200, 9600, 4800, 2400 bps selectable), commands control								
	USB: Allows communication between FGV-XY and Windows® PC Software with TORIEMON-USB via USB cable (included)								
Battery Charge	Overload Comparator: Open-collector output (Max DC30V/5mA)								
	Approximately 12 hours continuous use per full charge								
	Approximately 18 hours (when fully discharged)								
Recharge Time									
Temperature Limits	32 - 104°F (0 - 40°C)								
Dimensions	5.8" x 3" x 1.5" (147 x 75 x 38 mm)								
Product Weight					1 lb				1.1 lb
Package Weight	2.4 lb				2.6 lb				2.75 lb
Certification	CE, RoHS								
Warranty	2 year								
Included Accessories	AC adapter/charger, carrying case, hook, chisel, flat head, notched head, hanger, cone head, thread Adapter, extension rod, USB cable.								

Contact US

718-336-5900

Returns

Store Policies

About Us

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