



Shimpo FG-3009 Compact, Digital Force Gauge 220 x 0.1 lb

The FG-3000 Series digital force gauges are the choice for simple, cost-effective tension and compression testing. Combining one of the most compact housings, yet maintaining a large back-lit LCD, these units were designed to fit perfectly in the hand for ease of use. The multi-language FG-3000's provide menu programming for intuitive set-up of the instrument to your desired requirements



A **Nidec** Group Company
SHIMPO

Manufacture: Shimpo

SKU: FG-3009

Weight: 4.00 lb

Free Ground Shipping within the
48 continental US States

Please Call
(800)832-0055

Features

The new FG-3000 Series digital force gauges are the choice for simple, cost-effective tension and compression testing. Combining one of the most compact housings, yet maintaining a large back-lit LCD, these units were designed to fit perfectly in the hand for ease of use. The multi-language FG-3000's provide menu programming for intuitive set-up of the instrument to your desired requirements. Three modes of operation are selectable: Track mode displays live readings, Peak mode records the maximum reading sensed during the test, and Pre-set mode which activates user defined high and low limit set points. The programmable limits provide a quick visual and audible indication if a test passes or fails. In addition, a comparator output enables integration of the instrument into your quality system for repetitive testing such as on production lines.

The display graphics facilitate user comprehension and operation. An analog bar graph provides perspective of current reading in comparison to the full scale range. Pass/Fail icons provide an instant response of the testing outcome while a storage symbol acknowledges when a reading is logged. A menu-selectable display orientation streamlines switching from push to pull testing for portable or test stand applications.

These high-tech instruments can log up to 500 readings at the push of a button for instant data acquisition. The data can be viewed on screen, sent to optional printer, or uploaded on the free software program for graphing and statistical analysis. Models are available from 2.2 to 220 lb ranges providing a large offering for various applications such as, incoming quality inspection,

finished goods testing, R&D or almost any portable or force stand testing requirement.

- 1000 Hz Sample Rate combined with $\pm 0.3\%$ F.S. accuracy provides fast sampling producing great resolution and more accurate results
- Three mode operation: Track, Peak & Preset Limits
- 180° reversible display, tension/compression icons, and vertical printed keypad allows usage as a portable gauge or mounted upside down on a test stand
- Programmable High & Low Limits allow for instant visual and audible indication of pass or fail testing in Preset mode
- 500 point data collection capability can be viewed on display, sent to optional printer, or uploaded to software package for further analysis
- Rugged, ergonomic die cast aluminum construction allows usage in demanding applications
- Comparator output function provides user with easy Pass/Fail testing system integration capabilities
- Multi-language and engineering unit's selection provides flexible user comfort
- Field Calibration capability eliminates need to send to lab
- Calibration Certificate included along with popular adapter attachments
- Free Data logging/graphing software available for free download on website

EDMS Data Acquisition Software (free download on website) Allows full testing of FG Series Force Gauges with live analysis of the test results. Users can set a delay or a time period for the test data to record as well as begin or end if a load threshold is reached. The load can be inverted so the graph shows the resultant force in the direction desired. Average and peak readings are automatically calculated, but the user can zoom in on a section of a graph and recalculate the new average and peak over the selected portion of the test. Besides acquiring live data, the EDMS program can also upload previously stored readings from the gauge. Additionally, the software provides the ability to easily save the data set to a spreadsheet file, plus save the resultant graph as a photo for later review.

Specifications

Model	FG-3003	FG-3005	FG-3006	FG-3008	FG-3009
Capacity X Readability	2.2 x 0.001 lb	11 x 0.01 lb	22 x 0.01 lb	110 x 0.1 lb	220.0 x 0.1 lb
	1 x 0.001 kg	5 x 0.001 kg	10 x 0.01 kg	50 x 0.01 kg	100 x 0.1 kg
	10 x 0.01 N	50 x 0.01 N	100 x 0.1 N	500 x 0.1 N	1000 x 1 N
	35 x 0.01 oz	180 x 0.1 oz	350 x 0.1 oz	1800 x 1 oz	3500 x 1 oz
	1000 x 1 g	5000 x 1 g			
Accuracy	$\pm 0.3\%$ F.S.				
Selectable Units	N, gf, kgf, ozf, and lbf. (Depending on Range)				
Overload Capacity	150% of F.S. (LCD flashes beyond 110% of F.S.)				
Measurement Method	Peak, Track, Preset				
Data Sampling Rate	1000 Hz				
Display	160*128 dot matrix LCD with Backlight				
Display Update Rate	10 times/second				
Memory	500 data				
Set Point	Programmable high and low limits in Preset Mode				

Battery Indicator	Display flashes battery icon when battery is low
Power	3.6 V dc 800 mAH Ni-MH rechargeable batteries
Battery Life	Approximately 16 hours continuous use per full charge
Charger / Adaptor	Universal USB/BM charger, Input: 110 ~ 240 V ac
Temperature Effects	
Outputs	USB, RS-232; High & Low Limit NPN's
Operating Temperature	14 to 104°F (-10 to 40°C)
Housing	Aluminum
Storage Temperature	-4 to 122°F (-20 to 50°C)
Humidity Limit	5 to 95%
Dimensions	5.5 x 2.8 x 1.4" (140 x 71 x 35.5 mm)
Product Weight	0.9 lb (0.4 kg)
Package Weight	2.25 lb (1 kg)
Certification	CE
Warranty	1 year
Included Accessories	AC Adaptor/Charger, USB cable, calibration cert., 6 attachments: hook, flat tip, conical tip, chisel tip, notched tip, extension shaft

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