

FG-3000 Digital Force Gauge

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.



**FG-3000 with Accessories
in Protective Carrying Case**

Features

- 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

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FG-3000 Specifications

Accuracy	± 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 Back-light
Display Update Rate	10 times/second
Resolution	See chart
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 mA 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	<0.054% per °F (0.03% FS per °C)
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.

Ordering Details

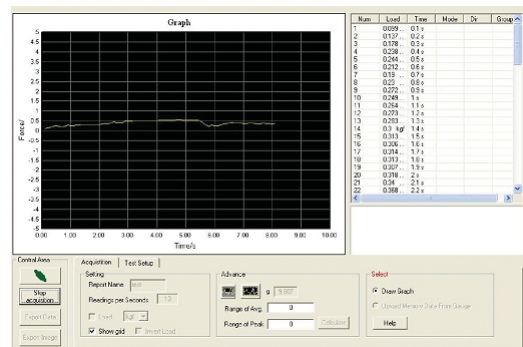
	Model	N	kgf	ozf	lbf	gf
FG-3003	Cap.	10.00	1.000	35.00	2.200	1000
	Res.	0.01	0.001	0.01	0.001	1
FG-3005	Cap.	50.00	5.000	180.0	11.00	5000
	Res.	0.01	0.001	0.1	0.01	1
FG-3006	Cap.	100.0	10.00	350.0	22.00	-
	Res.	0.1	0.01	0.1	0.01	-
FG-3008	Cap.	500.0	50.00	1800	110.0	-
	Res.	0.1	0.01	1	0.1	-
FG-3009	Cap.	1000	100.0	3500	220.0	-
	Res.	1	0.1	1	0.1	-

Accessories

FG-7CHRG	Charger
FG-7USB	USB Cable
FG-HK	Hook Adapter (M6)
FG-7FL	Flat Adapter (M6)
FG-7CN	Cone Adapter (M6)
FG-7CL	Chisel Adapter (M6)
FG-7GV	Notched Adapter (M6)
FG-7RD	Extension Rod (M6)
FG-PRINT	Portable Thermal Printer

EDMS Data Acquisition Software

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.



**Data Management Program
Available from Website**

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