SHIMPO INSTRUMENTS

The new FG-7000 Series digital force gauges are loaded with functionality to simplify your compression and tension

testing needs. The multiple-language FG-7000's provide menu programming for easy selection and set-up of the instrument to your desired requirements. Three modes of operation are selectable: Track mode for live readings, Peak mode for displaying the peak reading that remains until a higher peak is sensed, and Auto Peak mode which is similar to Peak mode except the peak on the display will additionally reset after a programmed time period. Programmable limits provide a quick visual and audible indication if a test passed or failed on the LCD. In addition, the comparator output can be set up for integration of the instrument into your quality system for repetitive testing such as on a production line.

These high-tech instruments can easily data log a reading at the push of a button for simple data acquisition, or be set to continuous data storage. Data can be viewed on the screen, sent to the optional printer, or loaded to be analyzed and graphed on the free software program. The 1,000 point memory with definable groups allows for multiple tests to be recorded and easily separated upon loading.

The FG-7000's robust housings are designed to fit perfectly in the operator's hand for portable testing. The large backlit, 180° auto-reversible display, compression/tension icons, combined with the dual labeled key pad allows for instant switching from push to pull testing for portable or test stand applications. Models are available from 0.5 lbs 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.

Measuring Quality

FG-7000 Digital Force Gauge





FG-7000 with Accessories in Protective Carrying Case

Features

- 1000 Hz Sample Rate combined with +/-0.2% F.S. accuracy provides fast sampling producing great resolution and more accurate results
- Three mode operation: Track, Peak & Auto-Peak
- 180° Auto-reversible display, tension/compression icons, and dual 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.
- 1000 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 units selection provides flexible user comfort
- · Field Calibration capability eliminates need to send to lab
- · Calibration Certificate included along with popular adapter attachments
- Free Datalogging/graphing software available for free download on website

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FG-7000 Specifications

Ordering Details

Accuracy	± 0.2% F.S.			
Selectable Units	mN, 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, Autopeak or Track Mode			
Data Sampling Rate	1000 Hz			
Display	2.1 x 1.6" (54 x 40 mm); dot matrix LCD with LED Backlight			
Display Update Rate	10 times/second			
Resolution	See chart			
Memory	1000 data			
Set Point	Programmable high and low limits			
Battery Indicator	Display flashes battery icon when battery is low			
Power	3.6VDC 800mAH Ni-MH rechargeable batteries			
Battery Life	Approximately 16 hours continu- ous use per full charge			
Charger / Adaptor	Universal USB/BM charger, Input: 110 ~ 240VAC			
Temperature Effects	<0.054% per °F (0.03% FS per °C)			
Outputs	1.) RS-232, 2.) "Within" set point output 3.) "Under or over" set point output			
Operating Temperature	14 to 104°F (-10 to 40°C)			
Storage Relative Humidity	20 to 80%			
Housing	Aluminum			
Storage Temperature	-4 to 122°F (-20 to 50°C)			
Oper. Relative Humidity	5 to 95%			
Dimensions	5.7 x 2.9 x 1.4" (145 x 73 x 35.5 mm)			
Product Weight	1.5 lb (0.7 kg)			
Package Weight	2.8 lb (1.3 kg)			
Warranty	1 year			
Included Accessories	AC Adaptor/Charger, USB cable, calibration cert., 6 attach- ments: hook, flat tip, conical tip, chisel tip, notched tip, extension shaft.			

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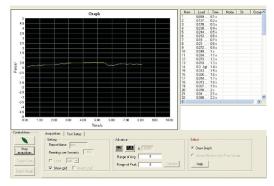
Model		mN	N	gf	kgf	ozf	lbf
FC 7001	Capacity	2000.0	2.0000	200.00	-	7.000	-
FG-7001	Resolution	0.5	0.0005	0.05	-	0.001	-
EC 7000	Capacity	5000.0	5.0000	500.00	-	18.000	1.1000
FG-7002	Resolution	0.5	0.0005	0.05	-	0.005	0.0001
FG-7003	Capacity	10000	10.000	1000.0	1.0000	35.00	2.2000
FG-7003	Resolution	1	0.001	0.1	0.0001	0.01	0.0005
FG-7004	Capacity	20000	20.000	2000.0	2.0000	70.00	4.400
FG-7004	Resolution	5	0.005	0.5	0.0005	0.01	0.001
FG-7005	Capacity	50000	50.000	5000.0	5.0000	180.00	11.000
FG-7005	Resolution	5	0.005	0.5	0.0005	0.05	0.001
FG-7006	Capacity	-	100.00	10000	10.000	350.0	22.000
FG-7000	Resolution	-	0.01	1	0.001	0.1	0.005
FG-7007	Capacity	-	200.00	20000	20.000	700.0	44.00
FG-7007	Resolution	-	0.05	5	0.005	0.1	0.01
FG-7008	Capacity	-	500.00	50,000	50.000	1800.0	110.00
FG-7008	Resolution	-	0.05	5	0.005	0.5	0.01
FG-7009	Capacity	-	1000.0	-	100.00	3500	220.00
FG-7009	Resolution	-	0.1	-	0.01	1	0.05

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