

The FG-7000L Series digital force gauges provide additional tension and compression testing flexibility with their external load cell input. External load cells are immediately recognized when connected to the display base. Two styles of load cells are available for your specific testing needs



A Shimpo Group Company
SHIMPO
Manufacture: Shimpo
SKU: **FG-7000L-R-200**
Weight: 4.00 lb
Free Ground Shipping within the 48 continental US States

Please Call (800)832-0055

Features

The FG-7000L Series digital force gauges provide additional tension and compression testing flexibility with their external load cell input. External load cells are immediately recognized when connected to the display base. Two styles of load cells are available for your specific testing needs. The first is the 'S' Beam style load cell for both tension and compression tests with capacities ranging from 220 lbf (100 kgf) up to 4500 lbf (2000 kgf). The second style available is the 'Ring' type load cell for compression applications with capacities ranging from 2250 lbf (1000 kgf) all the way up to a hefty 44,000 lbf (200 kN).
The multiple-language FG-7000L's provide menu programming for easy selection and set-up of the instrument to your desired requirements. Four selectable modes of operation include: Track mode for live readings, Peak mode for displaying the maximum reading, Auto Peak where the peak resets after a programmed period of time and First Peak where only the initial peak is recorded once a decrease is sensed. The display has two selectable operations, numerical view with bar graph or graphical view with bar graph. In graph mode if alarm tolerances are set, the user is presented a quick indication where their process is in relation to their upper and lower limit graph lines and can immediately determine pass/fail status.

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. In addition, the comparator output can be set up for integration of the instrument into a quality system for repetitive testing such as on a production line.
The FG-7000L's robust housings are designed to fit perfectly in the operator's hand for portable testing. The large back-lit, 180° auto-reversible display, compression/tension icons, combined with the dual labeled key pad allows for usage of the gauge in various positions while still being able to easily view and operate. These many features make the FG-7000L the ideal force instrument for various applications such as, incoming quality inspection, finished goods testing, R&D or almost any force testing requirement.

- 1000 Hz Sample Rate combined with +/-0.2% F.S. accuracy provides fast sampling producing great resolution and more accurate results
- Four mode operation: Track, Peak, First 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
- 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-7000L-S1	FG-7000L-S2	FG-7000L-S5	FG-7000L-S10	FG-7000L-S20	FG-7000L-R10	FG-7000L-R-20	FG-7000L-R-50	FG-7000L-R-100	FG-7000L-R-200
	220 x 0.05 lb	450 x 0.1 lb	1100 x 0.1 lb	2250 x 0.5 lb	4500 x 1 lb	2250 x 0.5 lb	4500 x 1 lb	(11000 x 1 lb*)	(22000 x 5 lb*)	(44000 x 10 lb*)
	100 x 0.01 kg	200 x 0.05 kg	500 x 0.1 kg	1000 x 0.1 kg	2000 x 0.5 kg	1000 x 0.1 kg	2000 x 0.5 kg	5000 x 1 kg	-	-
Capacity X Readability	1000 x 0.1 N	2000 x 0.5 N	5000 x 1 N	10000 x 1 N	-	10000 x 0.1 N	-	-	-	-
	-	-	-	10 x 0.01 kN	20 x 0.005 kN	10 x 0.01 kN	20 x 0.005 kN	50 x 0.01 kN	100 x 0.01 kN	200 x 0.05 kN
	-	-	-	-	-	-	-	11 x 0.001 klbf	22 x 0.005 klbf	44 x 0.01 klbf
	-	-	-	-	-	-	-	5 x 0.001 tf	10 x 0.001 tf	20 x 0.005 tf
Accuracy	± 0.2% F.S.									
Selectable Units	kN, N, kgf, tf, lbf and klbf. (Depending on Range)									
Overload Capacity	S beam: 150% of F.S.; Ring Type 120% of F.S. (LCD flashes beyond 110% of F.S.)									
Measurement Method	Peak, Autopeak, First Peak or Track Mode									
Data Sampling Rate	1000 Hz									
Display	160*128 dot matrix LCD with LED Backlight									
Display Update Rate	10 times/second									
Memory	1000 data									
Set Point	Programmable high and low limits									
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, Serial Port RS-232, High & Low Limit NPN									
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	5.7 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)									
Certification	CE									
Warranty	1 year									
Included Accessories	Load cell sensor, AC Adapter/Charger, USB cable, calibration cert., case									
	Load Cell Specifications									
Zero Balance	S Beam & Ring Type ±2% F.S.									
Non-Linearity	S Beam 0.03% F.S.; Ring Type 0.1% F.S.									
Hysteresis	S Beam 0.03% F.S.; Ring Type 0.1% F.S.									
Temp. Effect	S Beam 0.03%/10°C F.S.; Ring Type 0.05%/10°C F.S.									
Overload Protection	S Beam 150%; Ring Type 120%									
Protection Class	IP76									
Cable Length	9.8' (3 m)									

*pound mode not Available

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