

### 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

## FG-3000 Specifications

<b>Accuracy</b>	± 0.3% F.S.
<b>Selectable Units</b>	N, kgf, ozf, and lbf. (Depending on Range)
<b>Overload Capacity</b>	150% of F.S. (LCD flashes beyond 110% of F.S.)
<b>Measurement Method</b>	Peak, Track, Preset
<b>Data Sampling Rate</b>	1000 Hz
<b>Display</b>	160*128 dot matrix LCD with Backlight
<b>Display Update Rate</b>	10 times/second
<b>Resolution</b>	See chart
<b>Memory</b>	500 data
<b>Set Point</b>	Programmable high and low limits in Preset Mode
<b>Battery Indicator</b>	Display flashes battery icon when battery is low
<b>Power</b>	3.6VDC 800mAH Ni-MH rechargeable batteries
<b>Battery Life</b>	Approximately 16 hours continuous use per full charge
<b>Charger / Adaptor</b>	Universal USB/BM charger, Input: 110 ~ 240VAC
<b>Temperature Effects</b>	<0.054% per °F (0.03% FS per °C)
<b>Outputs</b>	USB, RS-232; High & Low Limit NPN's
<b>Operating Temperature</b>	14 to 104°F (-10 to 40°C)
<b>Storage Relative Humidity</b>	20 to 80%
<b>Housing</b>	Aluminum
<b>Storage Temperature</b>	-4 to 122°F (-20 to 50°C)
<b>Oper. Relative Humidity</b>	5 to 95%
<b>Dimensions</b>	5.5 x 2.8 x 1.4" (140 x 71 x 35.5 mm)
<b>Product Weight</b>	0.9 lb (0.4 kg)
<b>Package Weight</b>	2.25 lb (1 kg)
<b>Warranty</b>	1 year
<b>Included Accessories</b>	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
FG-3003	Capacity	10.000	1.0000	35.00	2.2000
	Resolution	0.001	0.0001	0.01	0.0005
FG-3005	Capacity	50.000	5.0000	180.00	11.000
	Resolution	0.005	0.0005	0.05	0.001
FG-3006	Capacity	100.00	10.000	350.0	22.000
	Resolution	0.01	0.001	0.1	0.005
FG-3008	Capacity	500.00	50.000	1800.0	110.00
	Resolution	0.05	0.005	0.5	0.01
FG-3009	Capacity	1000.0	100.00	3500	220.00
	Resolution	0.1	0.01	1	0.05

## Accessories

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

Available from:



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