

FGE-X Digital Force Gauges

Digital Force Gauges with 180° reversible display & dual labeled keypad for both push, pull applications

The Series FGE-X Digital Force Gauges combine a rugged, ergonomic and compact design with exceptional accuracy to provide a solid force testing instrument. These instruments are utilized in a variety of applications such as, incoming quality inspection, finished goods testing, R&D or almost any portable or force stand testing requirement.

Simple one button adjustment changes units of measure, while pressing the peak button quickly produces the highest recorded value during the test. The 180° reversible display combined with the adjustable force direction and dual labeled keypad enable the FGE-X to excel in both compression and tension applications in any direction. Models are available from 0.5 lbs to 100 lb ranges providing a large offering for various testing requirements.

Typical applications include wallboard, wire pull, wire crimps, trigger pull, brake pedal, aerospace ceramic, springs, food ripeness, corrugated paper strength, blister pack, medical component, muscle strength, ergonomic testing, adhesives, syringe plunger, needle sharpness and many more.



Features

- 1000 Hz Sample Rate provides faster sampling producing better resolution and more accurate results
- Ideal for strict tolerances with its high accuracy $\pm 0.2\%$ F.S.
- Measure and record compression and tension tests- permits true "push-pull" testing
- 180° Reversible display and dual printed keypad allows usage as a portable gauge or mounted upside down on a test stand
- 1 million operation load cell with superior overload protection provides a long-life, damage free product
- Rugged, ergonomic die cast aluminum construction allows usage on production floor
- Variable display response rate aids viewing readings
- Quick retrieval of peak measurement with a single push button
- Flexible user preference with one button selection of engineering units
- Dual power capable with rechargeable battery or AC line voltage
- CE Mark



FGE-X with Accessories
in Protective Carrying Case

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FGE-X Specifications

| FGE-X Model | FGE-0.5X | FGE-1X | FGE-2X | FGE-5X | FGE-10X | FGE-20X | FGE-50X | FGE-100X |
|-----------------------------|--|---|--------------------------------------|--------------------------------|-------------------------------|------------------------------|------------------------------|-------------------------------|
| Capacity | 8 oz 0.5 lb 200.0 g 2.000 N | 16 oz 1 lb 500.0 g 5.000 N | 32 oz 2 lb 1,000 g 10.00 N | 5 lb 2.000 Kg 20.00 N | 10 lb 5.000 Kg 50.00 N | 20 lb 10.00 Kg 100.0 N | 50 lb 20.00 Kg 200.0 N | 100 lb 50.00 Kg 500.0 N |
| Resolution | 0.01 oz 0.001 lb 0.1 g 0.001 N | 0.01 oz 0.001 lb 0.1 g 0.001 N | 0.01 oz 0.001 lb 1 g 0.01 N | 0.001 lb 0.001 Kg 0.01 N | 0.01 lb 0.001 Kg 0.01 N | 0.01 lb 0.01 Kg 0.1 N | 0.01 lb 0.01 Kg 0.1 N | 0.1 lb 0.01 Kg 0.1 N |
| Accuracy | ±0.2% F.S. | | | | | | | |
| Display | 4-Digit LCD, 0.5" (12 mm) high, Units 0.29" (7 mm). Reversible by the push of a button. Minus sign for tension | | | | | | | |
| Display Update | 0.05, 0.1, 0.2, 0.3, 0.5, 1 sec | | | | | | | |
| Sampling Rate | 1000 Hz | | | | | | | |
| Overload | 200% of F.S. (200 lb.: 150% F.S.) | | | | | | | |
| Power | Rechargeable Ni-Cad battery or AC adapter/charger | | | | | | | |
| Auto Power Shut-Off | Yes (not active if adapter/charge is in use) | | | | | | | |
| Battery Charge | 12 hours (when fully charged) | | | | | | | |
| Recharge Time | Approximately 18 hours when fully discharged | | | | | | | |
| Temperature Range | 32 - 104°F (0 - 40°C) | | | | | | | |
| Dimensions | 5.8 x 3 x 1.5" (147 x 75 x 38 mm) | | | | | | | |
| Product Weight | Approx. 1 lb (450 g) | | | | | | | |
| Package Weight | Approx. 2.25 lb (1.02 kg) for 0.5 lb and 1 lb ranges; 2.4 lb (1.09 kg) for 2 to 100 lb ranges | | | | | | | |
| Certification | CE | | | | | | | |
| Included Accessories | AC adapter/charger, carrying case, hook, chisel, flat head, notched head, hanger, cone head, thread Adapter, extension rod | | | | | | | |

Ordering Details

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| FGE-0.5X | 0.5 lb capacity digital force gauge |
| FGE-1X | 1 lb capacity digital force gauge |
| FGE-2X | 2 lb capacity digital force gauge |
| FGE-5X | 5 lb capacity digital force gauge |
| FGE-10X | 10 lb capacity digital force gauge |
| FGE-20X | 20 lb capacity digital force gauge |
| FGE-50X | 50 lb capacity digital force gauge |
| FGE-100X | 100 lb capacity digital force gauge |
| NIST-FG | NIST traceable certificate of calibration for ranges from 0.5 to 100 lbs |
| FGE-PT100 | 100 lb capacity FGE-X in ergonomic testing kit. Kit includes all of the standard FGE-X accessories but comes with larger, heavy duty case and adds padded ERGO accessories, handle, and NIST traceable certificate |

Accessories

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|--------------------|---|
| FG-M4ADP | Standard adapter set with M4 threads for ranges 0.5 lb and 1 lb. Includes: chisel, cone, flat head, notched head, hook, extension rod |
| FG-M4CL | Chisel adapter with M4 thread for ranges 0.5 lb and 1 lb. |
| FG-M4CN | Cone head adapter with M4 thread for ranges 0.5 lb and 1 lb. |
| FG-M4FL | Flat head adapter with M4 thread for ranges 0.5 lb and 1 lb. |
| FG-M4GV | Notched head adapter with M4 thread for ranges 0.5 lb and 1 lb. |
| FG-M4HK | Hook adapter with M4 thread for ranges 0.5 lb and 1 lb. |
| FG-M4RD | Extension rod adapter with M4 thread for ranges 0.5 lb and 1 lb. |
| FG-M6ADP | Standard adapter set with M6 threads for ranges 2 lb to 200 lb. Includes: chisel, cone, flat head, notched head, hook, extension rod |
| FG-M6CL | Chisel adapter with M6 thread for ranges 2 lb to 200 lb. |
| FG-M6CN | Cone head adapter with M6 thread for ranges 2 lb to 200 lb. |
| FG-M6FL | Flat head adapter with M6 thread for ranges 2 lb to 200 lb. |
| FG-M6GV | Notched head adapter with M6 thread for ranges 2 lb to 200 lb. |
| FG-M6HK | Hook adapter with M6 thread for ranges 2 lb to 200 lb. |
| FG-M6RD | Extension rod adapter with M6 thread for ranges 2 lb to 200 lb. |
| FG-09V120UC | Universal charger adapter for 120/240V AC |
| ERGO-KIT | Padded accessory kit for ergonomic testing |
| FG-HANDLE | Handle adapter for larger loads |

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