

HAND-HELD FORCE GAUGE

Hand-Held FORCE GAUGES

FGE Series FGV Series

The new CHECK•LINE® FGE and FGV Series Digital Force Gauges precisely measure push/pull forces of up to 500 pounds with an accuracy of $\pm 0.2\%$.

They are extremely compact for convenient hand-held use and include provisions for mounting on a test stand for bench-top use.







The FGV Series models include serial and analog outputs for recording purposes.

FEATURES

- Accuracy of $\pm 0.2\%$
- User-selected units of Pounds, Kilograms or Newtons
- Display can be reversed for inverted use
- Display “real-time” or “peak” force
- 200% overload protection
- FGV models include a RS-232C output and a ± 1 V DC analog output



| Complete Kit | | |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FGE Models | Models | FGV |
| <i>Includes:</i> AC Adapter/Charger, 3 attachments (Hook, Flat Head & Hanger) in a foam-fitted carrying case |  | <i>Includes:</i> AC Adapter/Charger, Attachments (Hook, Flat Head, Notched Head, Hanger, Cone Head and Extension Rod in a foam-fitted carrying case |

| Accessories | | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Chisel | Notched | Cone Head | Flat Head | Hook |
|  |  |  |  |  |
| Extension Rod | |  | | |

FGE SERIES / FGV SERIES

TECHNICAL DATA & SPECIFICATIONS

Model Data

| Models | FGE-0.5 | FGE-1 | FGE-2 | FGE-5 | FGE-1 | FGE-20 | FGE-50 | FGE-100 | FGE-200H | FGE-300H | FGE-500H |
|------------|----------|----------|-----------|-----------|----------|----------|----------|---------|----------|----------|----------|
| | FGV-0.5 | FGV-1 | FGV-2 | FGV-5 | FGV10 | FGV-20 | FGV-50 | FGV-100 | FGV-200H | FGV-300H | FGV-500H |
| Capacity | 8 oz. | 16 oz. | 2 lb. | 5 lb. | 10 lb. | 20 lb. | 50 lb. | 100 lb. | 200 lbs. | 300 lb. | 500 lb. |
| | 200 g | 500 g | 1000 g | 2 Kg | 5 Kg | 10 Kg | 20 Kg | 50 Kg | 100 Kg | 150 Kg | 250 Kg |
| | 2 N | 5 N | 10 N | 20 N | 50 N | 100 N | 200 N | 500 N | 1000 N | 1500 N | 2500 N |
| Resolution | 0.01 oz. | 0.01 oz. | 0.001 lb. | 0.001 lb. | 0.01 lb. | 0.01 lb. | 0.01 lb. | 0.1 lb. | 0.1 lb. | 0.1 lb. | 0.1 lb. |
| | 0.1 g | 0.1 g | 1 g | 0.001 Kg | 0.001 Kg | 0.01 Kg | 0.01 Kg | 0.01 Kg | 0.1 Kg | 0.1 Kg | 0.1 Kg |
| | 0.001 N | 0.001 N | 0.01 N | 0.01 N | 0.01 N | 0.1 N | 0.1 N | 0.1 N | 1 N | 1 N | 1 N |

Specifications

| | |
|------------------------------|-----------------------------------------------------------------------------------------------------------|
| Accuracy | ±0.2% FS plus 1/2 digit at 73 °F (23 °C) |
| Display | 4-Digit LCD, 12mm high. Reversible by a push of a button. Minus sign for tension. Low battery indication. |
| Average/Peak Mode | Selectable |
| Display Update | 0.3 seconds |
| Sampling Rate | 35 times per second |
| Overload | 200% of FS |
| Power | Rechargeable Ni-Cad batteries or AC through adapter/charger |
| Auto Power Off | Yes (Not active if adapter/charger is in use) |
| Battery Life | 20 hrs. when fully charged. Recharge time approx 12 hrs. |
| Temperature | 32 to 104 °F (0–40 °C) |
| Dimensions/Weight | 5.1" L x 2.9" W x 1.5" H (130 x 75 x 38mm)/1 lb. (450g) |
| Accessories Included | AC adapter/charger, carrying case, hook, flat head, hanger |
| Accessories Available | Test stands, chisel, cone head, notched head and extension cord |

High-Capacity Model



Additional Specifications for FGV

| | |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Output | RS-232C and ±1 V DC (through a 12-bit D/A converter) |
| Accessories Included | AC adapter/charger, carrying case, hook, chisel, flat head, notched head, hanger, cone head, extension rod and analog output cable |
| Accessories Available | Test stands, RS-232C cable |
| RS-232C Output Port | Baud Rate: 2400 bps, Data length: 8 bits, Stop bit: 1 bit, Parity: None, Software flow control: none |
| Overload Output | One NPN OC transistor for tension, one NPN transistor for compression |