

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

Includes:
AC Adapter/Charger,
3 attachments (Hook,
Flat Head & Hanger)
in a foam-fitted
carrying case



FGV Models

Includes:
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



Model Data

Models	FGE-0.5	FGE-1	FGE-2	FGE-5	FGE-10	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

CHECK·LINE®—PRECISION QUALITY CONTROL INSTRUMENTS

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