



User Manual

FG100 Force Gauge (110lbs)

⚠ WARNING

This product is a precision instrument, please handle with care.
For battery care: Please charge this gauge at least once every three months.

Force Gauge Overview



This product is a high performance, simple push pull force gauge.

1. Easy to read digital display
2. Small, light-weight and easy to carry
3. Unit display: Lb,Kg,N
4. The 3.7V lithium battery has over-load protection in case of short circuit. Battery icon on the display shows battery level. Auto shutdown after 10 minutes of inactivity.

FG100

Max Load	110lbs, 50kg, 500N
Resolution	0.011lb, 0.01kg, 0.1N

Specifications

Precision	±0.5%
Power	3.7V lithium battery
Charging time	4~6 hours
Continuous use	About 15 hours
Battery life	≥300 Charges
Charger	Input: AC100-240V 50-60Hz Output: DC 5V 1000mA
Working Temp	5~35°C
Transportation Temp	-10~60°C
Relative Humidity	15%~80%RH
Work Environment	No focus, Non-corrosive

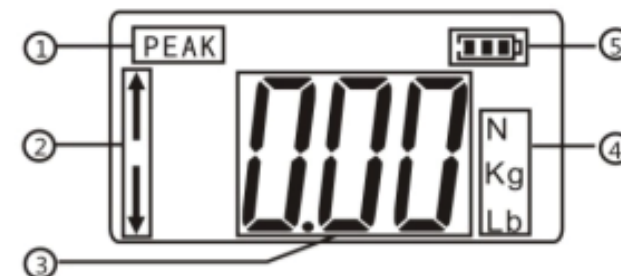
⚠ WARNING

Overloading the sensor can cause damage.

⚠ WARNING

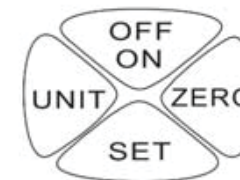
Do not disassemble, permanent fault may occur.

Screen Display



- 1 Peak Mode:** Power on, press the “SET” button to record maximum force value during measurement
- 2 Push/Pull Force:** Up arrow shows pull force, down arrow reflects push force
- 3 Force Value:** Force value measurement
- 4 Units:** N(newton), kg(kilogram), lb(pound) display respectively. Use the “UNIT” button to switch.
- 5 Power Display** Displays current battery levels

Buttons

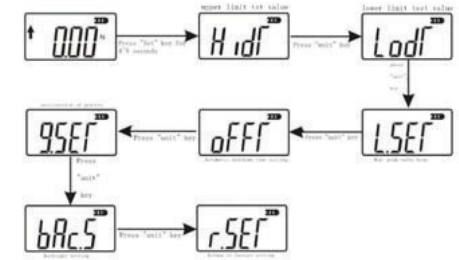


- OFF/ON:** Startup/Shutdown
- ZERO:** Returns unit to zero
- UNIT:** Switch measurement units
- SET:** After power up, hold for 4-5 seconds to enter “Settings”

Start-up Display



Start-up Settings: Hold “SET” button for 4-5 seconds after power-up to enter “Settings”



(HIDT, LODT, G.SET, OFFT, L.SET, BAC.S, R.SET)

H idf (HIDT) **Higher limit testing value setting:** To set higher limit test value, the default state of the high limit value is 99% of full range. Alarm will sound if the value is out of range. If you want to set the higher limit value again, press“UNIT” and “ZERO”. Press “SET” to save and return to Settings.

Lodf (LODT) **Lower limit testing value setting:** To set lower limit test value, its default state is zero. Alarm will sound if the value is out of range. If you want to set the lower limit value again, press “UNIT” and “ZERO”. Press “SET” key to save and return to Settings.

LSEf (L.SET) **Minimum Save value of peak:** When in peak mode, if the displayed value is lower than the minimum, the value will not be saved.

OFFf (OFFT) **Automatic shut down time setting:** Press “UNIT” and “ZERO” to set.

Choose automatic shut down from 1 to 9999 minutes, or “00” to disable this feature. Press “SET” to save. The factory default setting is 10 minutes.

9SEf (G.SET) **Acceleration of gravity setting:** Set acceleration of gravity according to location. The default value is 9.800.

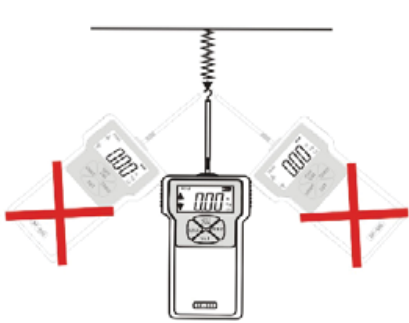
bAc.S (bAC.S) **Back light function setting:** When in this mode press “UNIT” for auto. Selecting “yes” will turn on the backlight, “no” will shut it off. Press “SET” to save and return to Settings

r.SEf (R.SET) **Return to factory setting:** Pressing “SET” will return the unit to factory settings. The unit will automatically power down.

Testing:

This unit is set at factory default and is ready to use once powered on. Or choose measuring mode for testing.

1. Select a clamp to fix on the push pull force gauge (DIY clamps: refer to related data of gauge outline and installation dimensions.)
2. Hold the force gauge firmly or put the force gauge onto the test stand. Mare sure the tested force and push-pull rod are in a straight line when measuring for accurate testing value.
3. Upon completion of the test, discharge the load then remove clamp.



Caution

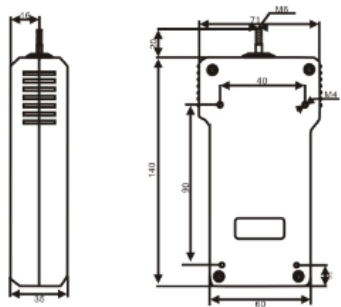
1. Do not operate on a low battery. Charge 4~6 hours before use.
 2. To avoid damage to the unit or injury, please read this manual carefully before using.
 3. When testing impact load, choose the gauge type in which the maximum load is twice the impact load value.
 10. Troubleshooting
- If any of these apply, please check before calling tech support.

	Symptom	Problem	Action
Power	No Display	No Power	Charge again
Test Value	Value Inaccurate	Error	Return to the factory for calibration
Other	Died Unexpectedly	No Response	Reset Unit with a needle

What’s in the box?

1. One charge
2. Five clamps
3. One extension tube
4. Four mounting screws
5. One manual

Dimensions:



Safety

Always use the charger that came with the unit to avoid damage or fire.

Do not use a power source that exceeds the rated voltage. Could result in electric shock or fire.

To avoid electric shock, do not handle the unit or charging cable with wet hands.

Handle the plug and not the cable when unplugging charging cable.

Clean with soft,damp cloth. Do not use harsh chemicals.

Do not operate the unit in humid conditions, dusty environments, or near oil, gas or chemicals

⚠ WARNING

- Be sure to wear protective gear during destructive testing.
- Do not use damaged or DIY clamps.
- Do not use this instrument out of the maximum range, doing so may cause damage or injury.
- When the alarm sounds continuously, the unit is exceeding 100% full range. Reduce the load or unload. If the value exceeds 120% full range, the unit will be damaged.
- If the unit freezes or locks up, press the reset key.

Warranty Statement

Triplett Test Equipment offers a two-year warranty to the original purchaser of its products. We guarantee that our products will be free from defects in workmanship and materials for two (2) years from the purchase date.

This warranty does not cover:

- Products purchased from unauthorized distributors.
- Items that have been repaired or altered by unauthorized individuals.
- Damage from misuse, abuse, misapplication, negligence or accidents.
- Products with altered, defaced, or removed serial numbers.
- Accessories, including batteries.