

*100 Kg, tension & compression*

# FORCE GAUGE

**Model : FG-5100**

*ISO-9001, CE, IEC1010*



## FEATURES

- \* 100 Kg, Kg/LB/Newton.
- \* Tension or Compression, Peak hold, Zero.
- \* Positive/ Reverse display.
- \* 5 digits LCD with back light.
- \* RS-232 computer interface.
- \* Full line accessories, optional test stand.
- \* DC 1.5V battery ( UM-3, AA ) x 6 or DC 9V adapter in.



**EZTECH**  
**EZTECH Instruments**

*The Art Of Measurements*

[www.WorldTesters.com](http://www.WorldTesters.com)

[sales@eztech-usa.com](mailto:sales@eztech-usa.com)

100 Kg x 0.05 Kg, Kg/LB/Newton, RS232

# FORCE GAUGE

Model : FG-5100

## FEATURES

* Large LCD display with back light.
* Tension & compression capability .
* 100 Kg, wide capacity, high resolution, high accuracy, high repeatability.
* 3 kind display unit, Kg/LB/Newton.
* Seperate sensor.
* Peak hold ( Max. load ) can be held in display during make tension or compression measurement.
* Zero button can operate both for normal measuring & the " peak hold " operation.
* Full capacity zero (tare) control capability.
* Fast/Slow response time push button.
* Positive or reverse display direction select.
* Over load protection.
* Hand held & stand mounting available.
* Low power consumption gives long battery life.
* Build in low battery indicator.
* Microprocessor circuit & exclusive load cell transducer.
* RS-232 computer interface .
* Power supply built-in DC 9V adapter input socket.

## SPECIFICATIONS

Display	LCD ( Liquid crystal display ). 5 digits, 16 mm ( 0.63" ) digit size. Back light.
Display Direction	Positive or Reverse direction, select by the push button on the front panel.
Function	Tension & Compression (Push & Pull). Normal force, Peak hold ( Max. load ).
Peak hold	Will freeze the display value of the Peak load ( Max. load ).
Zero	Zero button can be operated both for "normal force" or "peak hold" operation
Unit select	Kg/LB/Newton
Measure Capacity	100 Kg/220 LB/980 Newton.
Resolution	0.05 Kg/0.05 LB/0.2 Newton.
Min. Display	0.15 Kg/0.35 LB/1.4 Newton.
Accuracy	± (0.5 % + 2 digits), within 23± 5°C . * Under the test weight on 100 Kg & 10 Kg.
Data output	RS-232 serial computer interface.

Update time	Fast Approx. 0.2 second. Slow Approx. 0.6 second.
Over range Indicator	Display show " - - - - " when in over range status.
Overload Capacity	Max. 150 kg.
Full Scale Deflection	Less than 1 mm.
Zero/tare Control	Max. full capacity.
Circuit	Exclusive microprocessor LSI-circuit.
Sensor type	S type load cell.
Power Supply	6 x 1.5 V AA (UM-3) size battery or DC 9V adapter (not included).
Power Consumption	Approx. DC 28 mA
Operating Temperature	0°C to 50°C ( 32°F to 122°F ).
Operating Humidity	Less than 80% RH.
Dimension	<i>Main instrument :</i> 215 x 90 x 45 mm ( 8.5 x 3.5 x 1.8 inch ). <i>Sensors with two hooks :</i> 130 x 51 x 18 mm ( 4.7 x 2.0 x 0.7 inch ). <i>Cable length :</i> 2 meters.
Weight	<i>Main instrument :</i> 450 g ( 0.99 LB ). <i>Sensors :</i> 380 g ( 0.84 LB ).
Mounting Holes	Main instrument with mounting holes are provided on the back case, easy stand mounting.
Accessories Included	Operating manual ..... 1 PC. 100 Kg sensor with 2 hooks and 2 meter cable..... 1 PC. Hard carrying case ..... 1 PC.
Optional Accessories	* RS232 cable, Model : UPGB-01 * USB cable, Model : USB-01 * Software for data logging & data recorder, Model : SW-U801-WIN.

\* Appearance and specifications listed in this brochure are subject to change without notice.

# FORCE GAUGE

Model : FS-1001

ISO-9001, CE, IEC1010



## FEATURES

- \* Optional; test stand, be connected with FG-5000A, FG-20KG, FG-5000A-232, FG-20KG-232, whole system will be a useful tool for material's tension and compression analysis.
- \* Size : 650 x 250 x 230 mm.



**EZTECH**  
**EZTECH** Instruments  
**ESLECH**

*The Art Of Measurements*

[www.WorldTesters.com](http://www.WorldTesters.com)

[sales@eztech-usa.com](mailto:sales@eztech-usa.com)

# WEDGE GRIP

Model : WG-01

*ISO-9001, CE, IEC1010*

---

Wedge grip, the optional accessory to install to the base of FORCE GAUGE test stand FS-1001 be used to hold the tested material.

