

*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.
- \* Optional accessories :  
USB cable, RS232 cable,  
Software for data logging  
and recorder,
- \* DC 1.5V battery ( UM-3, AA )  
x 6 or DC 9V adapter in.



**Lutron**

**LUTRON ELECTRONIC**

***The Art of Measurement***

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 ).<br>5 digits, 16 mm ( 0.63" ) digit size.<br>Back light. |
| Display Direction | Positive or Reverse direction, select by the push button on the front panel.            |
| Function          | Tension & Compression (Push & Pull).<br>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 .<br>* Under the test weight on 100 Kg & 10 Kg.    |
| Data output       | RS-232 serial computer interface.                                                       |

|                       |                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Update time           | Fast    Approx. 0.2 second.<br>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><br>215 x 90 x 45 mm ( 8.5 x 3.5 x 1.8 inch ).<br><i>Sensors with two hooks :</i><br>130 x 51 x 18 mm ( 4.7 x 2.0 x 0.7 inch ).<br><i>Cable length :</i><br>2 meters. |
| Weight                | <i>Main instrument :</i><br>450 g ( 0.99 LB ).<br><i>Sensors :</i><br>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.<br>100 Kg sensor with 2 hooks and 2 meter cable..... 1 PC.<br>Hard carrying case ..... 1 PC.                                                                     |
| Optional Accessories  | * RS232 cable, Model : UPCB-01<br>* USB cable, Model : USB-01<br>* Software for data logging & data recorder,<br>Model : SW-U801-WIN.                                                         |

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

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