

# 20 Kg FORCE GAUGE

RS232

Model : FG-20KG-232

ISO-9001, CE, IEC1010



## FEATURES

- \* Tension & compression capability .
- \* 20 Kg, wide capacity, high resolution, high accuracy, high repeatability.
- \* 3 kind display unit, Kg/LB/Newton.
- \* Separate sensor.
- \* Peak hold ( Max. load ) measurement.
- \* Zero button can operate both for normal & " peak hold " operation.
- \* Full capacity zero (tare) capability.
- \* Fast/Slow response time.
- \* Positive or reverse display direction.
- \* Hand held & stand mounting.
- \* Microprocessor circuit & exclusive load cell transducer.
- \* Over load protection.
- \* RS-232 computer interface.



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With RS232 computer interface

# 20 Kg FORCE GAUGE

Model : FG-20KG-232



## FEATURES

* Wide capacity, high resolution, high accuracy, high repeatability.	* Positive or reverse display direction select.
* 3 kind display unit.	* Full line accessories ( adapters ) are included.
* Tension & compression capability .	* Hand held & stand mounting available.
* Peak hold ( Max. load ) can be held in display during make tension or compression measurement.	* Low power consumption gives long battery life.
* Zero button can operate both for normal measuring & the " peak hold " operation.	* Build in low battery indicator.
* Full capacity zero (tare) control capability.	* Microprocessor circuit & exclusive load cell transducer.
* Fast/Slow response time push button.	* Over load protection.
	* RS-232 computer interface.
	* Professional test stand ( optional ).

## SPECIFICATIONS

Display	LCD ( Liquid crystal display ). 5 digits, 10 mm ( 0.4" ) digit size.	Power Supply	6 x 1.5 V AA (UM-3) size battery or DC 9V adapter (not included).
Display Direction	Positive or Reverse direction, select by the push button on the front panel.	Power Consumption	Approx. DC 24 mA
Function	Tension & Compression (Push & Pull). Normal force, Peak hold ( Max. load ).	Transducer	Exclusive load cell.
Peak hold	Will freeze the display value of the Peak load ( Max. load ).	Operating Temperature	0°C to 50°C ( 32°F to 122°F).
Zero	Zero button can be operated both for "normal force" or "peak hold" operation	Operating Humidity	Less than 80% RH.
Measure Capacity	20.00 Kg/44.10 LB/196.10 Newton.	Dimension	227 x 83 x 39 mm ( 8.9 x 3.3 x 1.5 inch ).
Resolution	0.01 Kg/0.01 LB/0.05 Newton.	Weight	551 g ( 1.2 LB )/with batteries.
Min. Display	0.01 Kg/0.01 LB/0.05 Newton.	Mounting Holes	Mounting holes are provided on the back case, easy stand mounting.
Accuracy	± (0.5 % + 2 d), within 23°C ± 5°C.	Data output	RS-232 serial computer interface
Unit select	Kg/LB/Newton	Accessories Included	Operating manual ..... 1 PC. Flat-head adapter.....1 PC. Hook adapter .....1 PC. Cone head adapter .....1 PC. Chisel head adapter .....1 PC. 120 mm extension rod.....1 PC. Carrying case .....1 PC.
Update time	Fast      Approx. 0.2 second. Slow      Approx. 0.6 second.	Optional Accessories	* Test stand, Model : FS-1001 * Wedge grip, Model : WG-01 * Software for data logging & data recorder, Model : SW-U801-WIN * RS232 cable available for force gauge. Model : UPCB-04.
Over range Indicator	Display show " - - - - " when in over range status.		
Overload Capacity	Max. 30 kg.		
Zero/tare Control	Max. full capacity.		
Circuit	Exclusive microprocessor LSI-circuit.		
Full Scale Deflection	Approx. 0.4 mm max.		

## OPTIONAL EQUIPMENT & ACCESSORY

TEST STAND Model : FS-1001	Test stand, cooperate with Force gauge FG-20KG, FG-5000A, whole system will be become the useful tool for material's tension & compression analysis. Size : 630 x 250 x 230 mm. Weight : 7.02 Kg ( 15.4 LB ).
Wedge grip Model : WG-01	Wedge grip, the optional accessory to install to the base of FS-1001 be used to hold the tested material.
SW-U801-WIN	Software for data logging & data recorder.
UPCB-04	RS232 cable ( Double femal D9 RS232 cable ) available for FG-20KG-232 or FG-5000A-232.



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# 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.



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