



ENGLISH

# 5 Kg/20 Kg FORCE GAUGE

Model : 123-8768, FG-20KG



## FEATURES

- \* 5000 g, 20 KG wide capacity, high resolution, accuracy & repeatability.
- \* Display unit : gram, Newton & oz.
- \* Tension & compression capability .
- \* Peak hold ( Max. load ) .
- \* Zero button.
- \* Full capacity zero (tare) control.
- \* Fast/Slow response time push button.
- \* Positive or reverse direction select.
- \* Full line accessories ( adapters ) .
- \* Hand held & stand mounted available.
- \* Microprocessor circuit & exclusive load cell transducer.
- \* Over load protection.
- \* RS-232 computer interface ( optional ) .
- \* Professional test stand ( optional ) .

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 ( optional ) .
	* Professional test stand ( optional ) .

SPECIFICATIONS			
Display	LCD ( Liquid crystal display ). 5 digits, 10 mm ( 0.4" ) digit size.	Full Scale Deflection	Approx. 2.0 mm max.
Display Direction	Positive or Reverse direction, select by the push button on the front panel.	Power Supply	6 x 1.5 V AA (UM-3) size battery or DC 9V adapter (not included).
Function	Tension & Compression (Push & Pull). Normal force, Peak hold ( Max. load )	Power Consumption	Approx. DC 24 mA
Peak hold	Will freeze the display value of the Peak load ( Max. load ).	Transducer	Exclusive load cell.
Zero	Zero button can be operated both for "normal force" or "peak hold" operation.	Operating Temperature	0°C to 50°C ( 32°F to 122°F ).
Measure Capacity	5000 g/176.40 oz/49.03 Newton.	Operating Humidity	Less than 80% RH.
Resolution	1 g/0.05 oz/0.01 Newton.	Dimension	227 x 83 x 39 mm ( 8.9 x 3.3 x 1.5 inch ).
Min. Display	3 g/0.10 oz/0.03 Newton.	Weight	551 g ( 1.2 LB )/with batteries.
Accuracy	± (0.4 % + 1 d), within 23± 5°C.	Mounting Holes	Mounting holes are provided on the back case, easy stand mounting.
Unit select	g/oz/Newton	Data output	Optional, RS-232 serial computer interface
Update time	Fast      Approx. 0.2 second. Slow      Approx. 0.6 second.	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.
Over range Indicator	Display show " - - - - " when in over range status.		
Overload Capacity	Max. 7 kg.		
Zero/tare Control	Max. full capacity.		
Circuit	Exclusive microprocessor LSI-circuit.	Optional Accessories	Test stand, Model : FS-1001 Wedge grip, Model : WG-01

#### 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.

#### FORCE GAUGE with RS-232 COMPUTER INTERFACE

FG-5000A-RS232	All the function are same as the FG-5000A but with RS-232 computer interface.
SW-U101-WIN	Software for data logging & data recorder.