Precision Fruit Sclerometer (FORCE GAUGE)

FRUIT HARDNESS TESTER 5,000 g

Model: FR-5105 *ISO-9001, CE, IEC1010*







The Art of Measurement

5000 g x 1 g, Precision Fruit Sclerometer (FORCE GAUGE) FRUIT HARDNESS TESTER Model : FR-5105

FEATURES

	EATURES
*	The tester is used to measure the hardness of most kind
	fruits such as apple, pear, strawberry, grape, large/hard
	fruits, small/soft fruits. It is suitable for the fruit
	scientific research department, fruit company, fruit farm,
	agriculture colleges and universities to improve the fruit
	quality, the harvest storage, the product transportation
	by the fruits' hardness. The useful tester to judge fruit's
	mature degree.
*	Max. capacity: 5000 gf x 1 gf.
*	Unit: g/oz/Newton.
*	Use load cell sensor, high precision.
*	
	measurement.
*	Tension or Compression, Zero.
*	Positive/ Reverse display.
	Large LCD display with back light.
	Tip size : 3 mm, 6 mm, 8 mm, 11 mm.
	RS-232/USB computer interface.
	Complete set with hard carrying case and 4 kind tips
	(3 mm, 6 mm, 8 mm, 11 mm).
*	Test stand, FS-1001, optional.
*	USB cable (USB-01) and the data acquisition are optional.
*	Peak hold (Max. load) can be held in display during
	make the 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.
*	Tidila ficia & staria filoantea gaages are available.
*	Low power consumption gives long battery life.
*	Microprocessor circuit & exclusive load cell transducer.
*	Over load protection.
*	Bailt in Bo 74 power adapter input socket.
*	Range of 0 to 1 Kg (Appropriate for fruits such as grapes
	or cherries), with the 6 mm diameter sensor
	(FRTP-6).
*	Range of 0 to 5 Kg (Appropriate for fruits such as plums,
	lemons and other medium hard fruits), with the 6 mm
	diameter sensor (FRTP-6) or the 8 mm diameter sensor

SPECIFICATIONS

diameter sensor (FRTP-8).

Principal	The hardness of Fruit can express by the unit area (S) could undertake the pressure of dynamometer (N), their specific value is just as the hardness (P).
	P = N / S P = Hardness value of fruit (Kg/cm^2)
	N = Pressure of dynamometer (N, Kg, LB) S = Area of pressure (m^2, cm^2)
Display	LCD (Liquid crystal display). 5 digits, 16 mm (0.63") digit size. Back light.

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Display	Positive or Reverse direction, select by
Direction	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	g/Newton/oz.
Measure	5,000 g/176.40 oz/49.03 Newton.
Capacity	9,700 g, 170.10 02, 17.00 Howton
Resolution	1 g/0.05 oz/0.01 Newton.
	3 g/0.10 oz/0.03 Newton.
Min. Display	
Accuracy	\pm (0.4 % + 1 digit), within 23± 5°C.
	* Under the test weight on 3000 g & 5000 g.
Update time	Fast Approx. 0.2 second.
	Slow Approx. 0.6 second. Display show " " when in over
Over range	
Indicator	range status.
Data output	RS-232 serial computer interface.
Overload	Max. 7 kg.
Capacity	
Full Scale	Approx. 0.2 mm max.
Deflection	
Zero/tare	Max. full capacity.
Control	max. rail supusity.
Circuit	Exclusive microprocessor LSI-circuit.
Power Supply	6 x 1.5 V AA (UM-3) size battery
rowel Supply	
Douger	or DC 9V adapter (not included).
Power	Approx. DC 28 mA
Consumption	
Transducer	Exclusive load cell.
Operating	$0^{\circ}\!$
Temperature	
Temperature Operating	Less than 80% RH.
Temperature	Less than 80% RH.
Temperature Operating Humidity	Less than 80% RH. 215 x 90 x 45 mm (8.5 x 3.5 x 1.8 inch).
Temperature Operating Humidity Dimension	215 x 90 x 45 mm (8.5 x 3.5 x 1.8 inch).
Temperature Operating Humidity Dimension Weight	215 x 90 x 45 mm (8.5 x 3.5 x 1.8 inch). 650 g (1.43 LB)/with batteries.
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^{*} Appearance and specifications listed in this brochure are subject to change without notice.