Precision Fruit Sclerometer (FORCE GAUGE)

FRUIT HARDNESS TESTER 20 Kg

Model: FR-5120 *ISO-9001, CE, IEC1010*





The Art of Measurement

20 Kg X 0.01 Kg (10 g), Precision Fruit Sclerometer (FORCE GAUGE)

FRUIT HARDNESS TESTER

Model: FR-5120

FEATURES

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*	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		
Ļ	mature degree.		
*	Max. capacity: 20 Kgf x 0.01 Kgf (10 gf).		
*	Unit: Kg/LB/Newton.		
	esc load cell sellsor, riight precision.		
*	Digital display with Peak hold function, easy		
	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).		
	rest staria, i 5-1001, 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.		
*	Hand held & stand mounted gauges are available.		
*	Low power consumption gives long battery life.		
*	Microprocessor circuit & exclusive load cell transducer.		
*	ever load protection.		
*	Built-in DC 9V power adapter input socket.		
*	Range of 0 to 13 Kg (Appropriate for fruits such as apples,		
	pears, peaches or kiwis), with the 6 mm diameter sensor		
	(FRTP-6) or 11 mm diameter sensor (FRTP-11).		
*	Range of 0 to 20 Kg (Appropriate for very hard fruits)		
	using the 11 mm diameter sensor (FRTP-11).		

SPECIFICATIONS

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.
Display	Positive or Reverse direction, select by
Dif';f	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 button can be operated both for Zero "normal force" or "peak hold" operation Unit select Ka/Newton/LB. 20.00 Kg/44.10 LB/196.10 Newton. Measure Capacity Resolution 0.01 Kg/0.01 LB/0.05Newton. 0.02 Kg/0.07 LB/0.3 Newton, Min. Display \pm (0.5 % + 2 digits), within 23 \pm 5°C. Accuracy * Under the test weight on 10 Kg & 20 Kg. Update time Approx. 0.2 second. Slow Approx. 0.6 second. Over range Display show " - - - - " when in over Indicator range status. Data output RS-232 serial computer interface. Overload Max. 30 kg. Capacity Full Scale Approx. 0.4 mm max. Deflection Zero/tare Max. full capacity. Control Circuit Exclusive microprocessor LSI-circuit. **Power Supply** 6 x 1.5 V AA (UM-3) size battery or DC 9V adapter (not included) Power Approx. DC 28 mA Consumption Transducer Exclusive load cell. Operating 0° C to 50° C (32° F to 122° F). Temperature Less than 80% RH. Operating Humidity 215 x 90 x 45 mm (8.5 x 3.5 x 1.8 inch) Dimension Weight 650 g (1.43 LB)/with batteries. Data output RS-232 serial computer interface Mounting Main instrument with mounting holes are Holes provided on the back case, easy stand mounting. Accessories Operating manual1 PC. Included 11 mm Penetrometer Tip, FRTP-11...... 1 PC. 8 mm Penetrometer Tip, FRTP-8......1 PC. 6 mm Penetrometer Tip, FRTP-6...... 1 PC. 3 mm Penetrometer Tip, FRTP-3......1 PC. Carrying case1 PC. Optional * Test stand, Model: FS-1001 Accessories RS232 cable, Model: UPCB-01. USB cable, Model: USB-01. SD card data recorder, DL-9602SD. Software for data logging & data recorder, Model: SW-U801-WIN.

^{*} Appearance and specifications listed in this brochure are subject to change without notice.