Precision Fruit Sclerometer

FRUIT HARDNESS TESTER 20 Kg

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

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The Art of Measurement

20 Kg X 0.01 Kg (10 g), Precision Fruit Sclerometer 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			
mature degree.			
* Max. capacity : 20 Kgf x 0.01 Kgf (10 gf).			
* Unit : Kg/LB/Newton.			
* Use load cell sensor, high 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).			
* 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			
1 dog slow response time pash batton.			
Tiana fiela & stana filoantea gaages are available.			
Low power consumption gives long bactery life.			
* Microprocessor circuit & exclusive load cell transducer. * Over load protection.			
* Built-in DC 9V power adapter input socket.			
range of 6 to 13 kg (Appropriate for fraits 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

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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 Di f';f	Positive or Reverse direction, select by 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	Kg/Newton/LB.
Measure	20.00 Kg/44.10 LB/196.10 Newton.
Capacity	
Resolution	0.01 Kg/0.01 LB/0.05Newton.
Min. Display	0.02 Kg/0.07 LB/0.3 Newton,
Accuracy	\pm (0.5 % + 2 digits), within 23± 5°C.
	* Under the test weight on 10 Kg & 20 Kg.
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 Capacity	Max. 30 kg.
Full Scale	Approx. 0.4 mm max.
Deflection	дрргох. о.ч пшт тах.
Zero/tare	Max. full capacity.
Control	riax. Tuli capacity.
Circuit	Exclusive microprocessor LSI-circuit.
Power Supply	6 x 1.5 V AA (UM-3) size battery
rower Juppiy	or DC 9V adapter (not included).
Power	Approx. DC 28 mA
Consumption	FF 5 =5
Transducer	Exclusive load cell.
Operating	$0^{\circ}\!$
Temperature	
Operating	Less than 80% RH.
Humidity	
Dimension	215 x 90 x 45 mm (8.5 x 3.5 x 1.8 inch).
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 manual 1 PC.
Included	11 mm Penetrometer Tip, FRTP-11 1 PC.
	8 mm Penetrometer Tip, FRTP-81 PC.
	6 mm Penetrometer Tip, FRTP-61 PC.
	3 mm Penetrometer Tip, FRTP-31 PC.
	Carrying case
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.
	TECOLORI MODEL SVV-HOUT-VVIIV

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