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

FRUIT HARDNESS TESTER

Model: FR-5105

FEATURES

: EXTORES			
* 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.			
* 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.			
* Hand held & stand mounted gauges are available.			
* Low power consumption gives long battery life.			
* Microprocessor circuit & exclusive load cell transducer.			
* Over load protection.			
* Built-in DC 9V power adapter input socket.			

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
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
_ 5. 5	"normal force" or "peak hold" operation
Unit select	g/Newton/oz.
Measure	5,000 g/176.40 oz/49.03 Newton.
Capacity	5,000 g, 170.40 02/47.00 Newton.
Resolution	1 g/0.05 oz/0.01 Newton.
Min. Display	3 g/0.10 oz/0.03 Newton.
Accuracy	\pm (0.4 % + 1 digit), within 23± 5°C.
Accuracy	* Under the test weight on 3000 g & 5000 g.
Update time	Fast Approx. 0.2 second.
opuate time	
Over range	Slow Approx. 0.6 second. Display show " " when in over
Indicator	range status.
Data output	RS-232 serial computer interface.
Overload	Max. 7 kg.
Capacity	IVIAA. / Ny.
Full Scale	Approx. 0.2 mm max.
Deflection	Approx. 0.2 min max.
Zero/tare	May full capacity
	Max. full capacity.
Control	Evaluativa miaranna accord I CL aircuit
Circuit	Exclusive microprocessor LSI-circuit.
Power Supply	6 x 1.5 V AA (UM-3) size battery
Dawar	or DC 9V adapter (not included).
Power	Approx. DC 28 mA
Consumption	Evelueive load cell
Transducer	Exclusive load cell.
Operating	$0^{\circ}\!$
Temperature	Logo than 2007 DII
Operating	Less than 80% RH.
Humidity	015 00 45 (0.5 0.5 1.0 1.1)
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
A	mounting.
Accessories	Operating manual
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 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.