Force Gauges

PCE-PTR 200

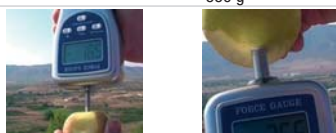### Fruit firmness tester which helps determine the ripeness of fruit

The PCE-PTR 200 fruit firmness tester, also known as a fruit pressure tester, is a penetrometer that measures fruit firmness and provides a quick, easy and accurate method to determine the ripeness of fruit. Contrary to other analogical penetrometers, this digital fruit firmness tester will offer you high levels of accuracy and resolution in its measurements. With this tester you will obtain very valuable information, for example, the date of harvest, the condition of the fruit during storage, transport and at point of sale. This fruit firmness tester can be used as either a handheld instrument or mounted on an optional test stand for more precise measurements.

- Combines 3 penetration probes
- kg/cm² conversion table
- Sotores MAX value
- Zero reset
- Peak Hold and recall MAX value
- Auto shut-off
- Low battery indicator
- Overrange protection = 150 %
- RS-232 interface
- ISO Certificate (optional)

Technical specifications

Model	PCE-PTR 200
Measurement ranges	0 to 20 kg / 0 to 196 N
Accuracy	±0.5 %, ±2 of reading
Resolution	10 g / 0.05 N
Units of measurement	grams / Newton
Overload capacity	30 kg
Interface	yes
Software	yes, (optional)
Memory	-
Functions	push / pull measure. with Peak Hold
Display	5 digit LCD; 10 mm
Power	6 1.5 V batteries or adaptor
Enclosure	ABS plastic
Dimensions	227 x 83 x 39 mm
Weight	550 g

Contents

PCE-PTR 200 fruit firmness tester, 3 penetration probes (Ø6, Ø8, Ø11 mm), 2 stop washers, conversion table, carrying case and user's manual

Model No.	Description
PCE-PTR 200	Fruit firmness tester

Optional accessories

SOFT-LUT-D	Software in English with data cable included
RS232-USB	RS232 to USB adaptor
CAL-FG-II	ISO Certificate for PCE-PTR
NET-300	Net adaptor

Serie PCE-FM

Force gauge (5 kg and 20 kg) with RS-232 interface and optional software and test stand for serial measurements

PCE-FM series force gauge with quick and precise reading of push and pull measurements. The display can be rotated 180 ° to allow for the gauge to be in the correct position to take an accurate measurement. This force gauge can be used as either a handheld instrument or mounted on an optional test stand for more precise measurements.

- Two models available: 5 kg and 20 kg
- RS-232 interface
- Software (optional)
- Hold function for tension / compression maximum values
- Zero reset button
- Peak Hold and maximum value recall
- Auto shut-off
- Overrange protection = 150 %
- Holes for test stand mounting
- Test stand (optional)
- ISO Certificate (optional)

Technical specifications

Model	PCE-FM50	PCE-FM200
Ranges	0 to 5 kg / 0 to 49 N	0 to 20 kg / 0 to 196 N
Accuracy	±0.4 %, ±1 dgt	±0.5 %, ±2 dgt
Resolution	1 g / 0.01 N	10 g / 0.05 N
Unit	grams / Newton	grams / Newton
Overrange capacity	7.5 kg	30 kg
Interface	yes	
Software	yes, (optional)	
Memory	-	
Functions	push / pull measure with Peak Hold	
Display	5 digit LCD; 10 mm	
Power	6 1.5 V batteries or adaptor	
Enclosure	ABS plastic	
Dimensions	227 x 83 x 39 mm	
Weight	550 g	

Contents

Force gauge (one of our models), flathead, hook, cone and chisel adaptors, extension rod (120 mm), carrying case and user's manual

Model No.	Description
PCE-FM50	Force gauge up to 5 kg
PCE-FM200	Force gauge up to 20 kg

Optional accessories

SOFT-LUT-D	Software in English with RS-232 cable
RS232-USB	RS232 to USB adaptor
CAL-FG-I	ISO Certificate for the PCE-FM50
CAL-FG-II	ISO Certificate for the PCE-FM200
NET-300	Net adaptor

PCE-FM1000

Force gauge with external load cell, RS-232 interface and optional software

Force gauge that measures tension and compression up to 100 kg (981 N). The external dynamometric cell can be hung or hooked with a bracket (included in the delivery) that can be unscrewed and seperated from both sides of the cell to fasten onto test stands and bench tests.

- External load cell with 2 m cable
- Crane hook and adjustable bracket
- Optional software and test stand
- Hold function for push/pull maximum values
- Zero reset button
- Peak Hold and maximum value recall
- Auto shut-off
- Overrange protection = 150 %
- ISO Certificate (optional)

PCE-LTS20 test stand and holder to adjust the unit (optional)

Technical specifications

Model	PCE-FM1000
Range	0 to 100 kg / 0 to 981 N
Accuracy	±0.5 % ± 2 digits / ± 5 N
Resolution	0.05 kg / 0.2 N
Units	grams / Newton
Overrange protection	50 % (max. 150 kg)
Interface	yes
Software	yes, optional
Memory	-
Functions	push and pull with Peak Hold
Display	5 digit LCD (10 mm)
Power	6 1.5V batteries or AC adaptor
Enclosure	ABS plastic
Dimensions	cload cell: 130 x 51 x 18 mm unit: 227 x 83 x 39 mm
Weight	external load cell: 380 g unit: 450 g

Contents

PCE-FM1000 force gauge with external load cell and 2 m cable, carrying case and user's manual

Model No.	Description
PCE-FM1000	Force gauge up to 100 kg

Optional accessories

SOFT-LUT-D	Software with RS-232 cable
RS232-USB	RS232 to USB Adaptor
CAL-FG-III	ISO Certificate forPCE-FM1000
NET-300	Net adaptor