

# Test Equipment - Mechanical & Weighing

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## Distance Measurement

### Distance Meter, Laser



#### Features and benefits:

- Both meters offer:
- Reduction of estimation errors, saving both time and money
  - The most advanced laser technology for distance measurement
  - Instant measurement with one-button operation
  - Easy targeting with bright laser
  - Quick calculation of area (square footage) and volume
  - Easy addition and subtraction of measurements
  - Improved battery life from automatic shut-off feature

- Pythagoras calculation for determining distance indirectly from two other measurements
- Pouch with Fluke logo
- The 416D additionally offers:**
- Improved visibility with backlight, three-line display
- Ability to measure up to 60 m (200 ft)
- Enhanced Pythagoras calculation for determining distance indirectly from three other measurements
- Audible feedback of on and off modes
- Storage of the last ten measurements for quick recall of distance
- Minimum and Maximum function
- Strong environmental protection with IP54 (water spray and dust proof) sealing

Technical specifications	Fluke 411D	Fluke 416D
Range (for extended distances, use a target plate)	0.1 m to 30 m (0.33 ft to 100 ft)	0.05 m to 60 m (0.16 ft to 200 ft)
Measuring accuracy	± 3 mm (0.118 in)	± 1.5 mm (± 0.059 in)
Units displayed	00.000 m, 000 ft 00 in 1/8, 000.00 ft	00.000 m, 000 ft 00 in 1/16, 000.00 ft
Laser class	II	II
Laser type	635 nm, < 1 mW	635 nm, < 1 mW
Automatic power off	after 180 seconds	after 180 seconds
Continuous measurement	●	●
Addition/subtraction	●	●
Battery life	up to 3,000 measurements	up to 5,000 measurements
LCD illumination	—	●
Data locations	—	●
Min/Max	—	●
Audible feedback	—	●
Pythagoras (Indirect measurement)	Simple	Full
Ingress protection	IP40	IP54
Dimensions	123 mm x 50 mm x 26 mm (4.84 in x 1.97 in x 1.02 in)	135 mm x 46 mm x 31 mm (5.31 in x 1.81 in x 1.22 in)
Weight	150 g (5.29 oz)	110 g (3.88 oz)
Temperature range:		
Storage	-25 °C to 70 °C (-13 °F to 158 °F)	-25 °C to 70 °C (-13 °F to 158 °F)
Operation	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 40 °C (32 °F to 104 °F)
Operating altitude (ISO 9022)	up to 3500 m	up to 3500 m
Storage humidity (at 35 °C)	maximum 85 % for 24 h	maximum 85 % for 24 h
Batteries	AAA (2)	AAA (2)

524995

Mfrs. List No.	Order Code	Price Each
FLUKE-411D	165-9634	1+
FLUKE-416D	165-9635	



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## Vibration Meters



### Vibration Meter VM100



The VM Vibration Meter is a compact, lightweight, portable, battery powered device, supplied with a hand-held probe. The VM Vibration Meter is an ideal entry level instrument for vibration monitoring of plant and machinery around your factory. Supplied as a complete kit ready to use, with a hand held probe with attachable spike or magnet mount contained within a protective case.

- Simple operation
- Measures acceleration, velocity or displacement in three ranges
- Selection of peak or rms values
- Low pass filter selector to remove unwanted signals
- Ready to use out of the box

347175

Mfrs. List No.	Order Code	Price Each
VM100	506-3139	1+

### Vibration Meter Fluke 805



Make go or no-go maintenance decisions with confidence. This vibration meter is a reliable vibration screening device available for frontline mechanical troubleshooting teams that need repeatable, severity-scaled readings of overall vibration and bearing condition.

- Innovative sensor design helps minimize measurement variations caused by device angle or contact pressure
- Consistent data quality at both low and high frequency ranges
- Four-level scale indicates severity of problems for overall vibration and bearing condition
- Colored lighting system (green, red) and on-screen comments indicate how much pressure needs to be applied to take measurements
- Audio output for listening to bearing tones directly
- External accelerometer support for hard to reach locations
- Flashlight for viewing measurement locations in dark areas
- Large screen with high resolution for easy navigation and viewing

**Applications:** Chillers (refrigeration), Fans, Cooling tower drives, Centrifugal pumps, Positive displacement pumps, Air compressors, Blowers, Generic gearboxes (rolling element bearings) and Machine tools (motor, gearboxes, spindles, etc.).

Vibration Meter	
Low Frequency Range	10Hz to 1000Hz
High Frequency Range	4000Hz to 20000Hz
A/D Converter	16 bit
Signal to Noise Ratio	80dB
Sensor	
Sensitivity	100mV/g ±10%
Measurement range	0.01g to 50g
Low Frequency Range	10Hz to 1000Hz
High Frequency Range	4000Hz to 20000Hz
Resolution	0.01g
Amplitude Units	
Acceleration	g, m/sec <sup>2</sup>
Velocity	in/sec, mm/sec
Displacement	mils, mm
Infrared Thermometer (Temperature Measurement)	
Range	-20°C to 200°C
Accuracy	±2°C
General	
interfaces	USB 2.0 (full speed) communication
Memory	Up to 3,500 measurements
Operating temperature	-20°C to 50°C
IP rating	IP54
Dimensions	257.2x161.9x98.4mm
Weight	400g

**Kit Contents:** Vibration meter, USB cable, Storage case, Belt holster, Quick reference guide, CD-ROM (includes MS Excel template and documentation) and AA batteries.

658943

Mfrs. List No.	Order Code	Price Each
FLUKE-805	211-4858	1+

# Tachometers & Stroboscopes

## Mechanical Tachometer

DEUMO 3



The Deumo Tachometers are highly accurate precision made measuring instruments, offering long scale analogue dials with clear and concise dial markings, they incorporate jewelled bearings and temperature compensated movements for consistently accurate performance.

Each model includes a pointer lock feature to allow the user to retain the last reading in the instrument dial.

There are 3 measuring ranges on each model, providing a very versatile selection to cover most application requirements, the speed range is selected via a rotary gear selector mechanism, this gearbox provides automatic rotation direction sensing so shaft direction is automatically allowed for.

These Tachometers are supplied complete with a comprehensive range of attachments and a custom carrycase.

- High accuracy
- Low maintenance
- Pointer Lock feature
- Auto-direction sensing
- Fully jewelled mechanism
- Long scale dial - easy reading
- No batteries required
- Supplied with 2x rpm cones, 1x female cone, 1x metric disc, carry case and instructions

Speed Ranges	DEUMO 3
I	16 - 200 rpm
II	160 - 2000 rpm
III	1600 - 20000 rpm

347191

Mfrs. List No.	Order Code	Price Each
DEUMO/3	506-1854	1+

## Pocket Optical Tachometer

460



- Optical rpm measurement with LED spot marking
- Max./min. values
- Optical LED sensor
- 0.5s measuring rate
- Backlit display
- Auto-off

Supplied with Calibration protocol, wrist strap, belt holder, protective cap & batteries

Measuring Range	100 to 29,999 rpm
Resolution	0.1rpm (100 to 999.9 rpm) 1 rpm (1,000 to 29,999 rpm)
Accuracy	± 0.02% of m.v. + 1 digit
Units	rpm, rps
Operating Temperature	0 to 50°C
Battery Type	Alkaline (2 x AAA)
Battery Life	20 hrs (average, without display illumination)
Dimensions (Incl. Protective Cap)	119 x 46 x 25mm

488383.503094

Mfrs. List No.	Order Code	Price Each
460	147-1396	1+

## Laser Optical/Contact Tachometers



Optical/Contact tachometer for measuring speeds of rotating objects in RPM or for measuring surface speeds in meters per minute or feet per minute. High accuracy is achieved by combining CPU, photoelectrical and laser techniques.

- Laser spot for easy identification of target (optical)
- Optical detector distance 50mm to 500mm
- Last measured value and Min/Max memory updated automatically
- Supplied with foam padded carry case, 700mm reflective tape and instructions for use
- Includes contact adaptor, cone, funnel and surface wheel

Accuracy	±0.05% ±1 digit	0.05 to 1999.9 M/min
Resolution	0.1 up to 999.9 rpm, 1 above	0.2 to 6560 Ft/min
Ranges	1 to 99999 Counter	Auto-Ranging 0.01 Up to 100 M/min, 0.1 above
Auto-Ranging	1 Counter	0.1 up to 1000 Ft/min, 1 above
Ranges	0.5 to 19999 rpm (contact)	

333736.276729

Description	Order Code	Price Each
Optical/Contact	462-5973	1+

## Digital Tachometer / Counter



Provides fast and accurate non-contact RPM and TOT measurements of rotating objects.

Sensor	Optical with modulated light beam
Display	Large 5-digit LCD display
RPM Range	2 to 99,999 rpm
Resolution	0.1 rpm
Accuracy	±(0.05% + 1d)
TOT Range	0 to 99,999
Battery	9V PP3 (included)
Dimensions (WxHxD)	60 x 160 x 42mm
Weight	151g
Supplied with:	Reflective tape and carry pouch

486598.465435

Order Code	Price Each
143-0722	1+ 5+
<b>Price Each</b>	
Standard Calibration Charge	S C.4
UKAS Calibration Charge	N C.4

## Hand Held LED Tachometers



- Large bright red LED display display
- Wide speed range 3-99999 with high accuracy
- User-selectable Autorange allowing measurement down to 0.001 resolution
- Last reading hold & memory recall features
- Low battery and on target indication
- Six measurement functions
- Event timing and production counting
- Laser light source which produces a small spot of intense light that can be seen in any light condition
- Range - 2 metres
- Optical Angle of ±80°

Speed Range	3 - 99999 rpm
Display	5 digit LED 10.5mm (0.4")
Display update time	0.8 secs >75 rpm - 20 sec @ 3 rpm
Accuracy	±0.05%, ±1 digit of reading
Timebase	Crystal controlled
Auto-fixed ranges	User-selectable
Resolution	Rate modes - 1 digit or max. 0.001 in Autorange 0.1 - 99999 sec
Time Mode	0.1 - 99999 sec
Count Mode	1 count (1 pulse/shaft rev/meter)
Last Reading Hold	Displayed for 10 seconds
Memory Recall	Up to 1 minute
Over Range	Display flashes
Under Range	Display reverts to zero
On Target Indicator	Green LED flashes
Battery Low	LED indicates battery state
Optical Range	25mm - 2000mm (1" to 6 feet)
Optical Angle	±80° to reflective marker
Power Source	4 x AA batteries (alkaline or Ni-Cad)
Accessory Socket	3.5mm stereo socket for charger and remote sensors

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Description	Mfrs. List No.	Order Code	Price Each
Optical/Laser	CT6/LSR	462-6746	1+

## Non-Contact, Optical Tachometer

Testo 465



Using the Testo 465, rpm can be easily measured optically without contact. Simply attach a reflector to the object to be measured and point the visible red modulated light beam at the reflector and take a measurement.

- Low cost
- Easy one handed operation
- Max/Min Function
- Saves Mean/Max and last recorded value when switched off
- Auto-off function
- Kit includes: case, reflectors, batteries and instruction manual

Sensor:	Optical with modulated light beam
Measuring range	1 to 99999rpm
Distance from Object:	Max 350mm (14 inches)
Accuracy	± 0.02% of measured value, ± 1 digit
Operating Temperature	0°C to 50°C

Storage Temperature	-20 to +70°C-2070°C
Battery	2 x 1.5v AA Cells
Auto Off	30 seconds (Average/Max/Last value measurements saved)
Dimensions	144 x 58 x 20mm
Weight	145g

Mfrs.		<b>Price Each</b>
List No.	<b>Order Code</b>	1+
465	<b>321-4047</b>	

## Non-Contact and Mechanical Tachometer

Testo 470



Testo 470 has the advantage of a combination of both optical and mechanical rpm measurement. Simply attach the reflector to the object being measured and point the red modulated beam on the reflector.

By attaching an adaptor and cone or running wheel converts this instrument into a mechanical measuring device.

- Optical and mechanical measurement
- Measures rpm, speeds and length
- Easy to switch type of measurement
- Kit includes: case, adaptor, cone, running wheel, reflectors and instruction manual.
- Low battery warning

Sensor:	Optical with modulated light beam, mechanically with adapter and cone or running wheel
Measuring range	1 to 9999rpm (Optical) 1 to 19,999rpm (Mechanical)
Speed	0.10 to 1,999 m/min 0.30 to 6500 ft/min
Lengths	4 to 78,000 in/min 0.02 to 99,999 m 0.01 to 99,999 ft
Accuracy	± 0.02% of measured value, ± 1 digit (±1 digit/.02m/1.00 inch dependant on resolution)
Operating Temperature	0°C to 50°C
Storage Temperature	-20 to +70°C-2070°C
Battery	2 x 1.5v AA Cells
Auto Off	30 seconds (Average/Max/Last value measurements saved)
Dimensions	175 x 60 x 28mm
Weight	190g

Mfrs.		<b>Price Each</b>
List No.	<b>Order Code</b>	1+
470	<b>321-4059</b>	

## Laser Tachometer A2103/LSR



- Multipurpose tachometer/counter with optical or contact rpm
- Linear rate/distance ranges
- Unique inverting display
- Optical range of up to 2 metres
- Time and count modes
- Data capture and very fast response modes (0.1 seconds update time)
- Supplied with contact adapter, reflective tape, mini-laser, 1 metre cable and carry case

Optical range	50 - 2000mm	Capture mode	0.1 sec
Angle	± 80°	Count	0 - 99 999 revs or length in linear
Light source	1mw laser 635nm class II	Time interval	0.01 - 99 999 secs (auto)
Speed range	3 - 99 999 rpm or rps equiv	Memory hold	Holds last reading 1 minute
Resolution	Max in autorange 0.001	Signal Input	3.5mm socket for external optical sensor
Accuracy	0.05% ± 1 digit	Remote sensor	MiniLaser with 1 metre cable supplied
Update time	0.8 sec	Power	4x AAA batteries - supplied

Mfrs.		<b>Price Each</b>
List No.	<b>Order Code</b>	1+
Tachometer	A2103/LSR	<b>506-1751</b>

## Light-intensive Hand-held Stroboscope

476 Pocket Strobe™



The testo 476 Pocket Strobe™ hand-held stroboscope measures and checks rotation and vibration movements. It facilitates the measurement of very small objects or in hard-to-access places. The energy optimised switching electronics and light-intensive xenon flash lamp facilitate a high light intensity (approx. 800 lux).

- High setting accuracy and stability thanks to dynamic setting dial
- High light intensity due to energy optimised switching electronics and powerful xenon flash lamp
- Powerful rechargeable battery pack for min. 1 hour operation time over the frequency range
- Automatic trigger to synchronize flash sequence
- Memory function
- 5 digit LCD display
- Supplied in hard carry case with multi-national mains adaptor and trigger signal connector

Measuring Range	+30 to 12500 rpm	Dimensions	240x65x50mm
Accuracy (±1 digit)	±0.01% of mv (+30 to +12500rpm)	Weight	465g
Resolution	1rpm (+30 to 12500rpm)		

Mfrs.		<b>Price Each</b>
List No.	<b>Order Code</b>	1+
476	<b>501-0779</b>	

## Stroboscope

DT-315N



A very rugged general purpose internal battery powered portable Stroboscope designed for continuous operation over a very wide frequency range. The DT-315N Stroboscope has several key application features, including very stable digital flash frequency control, flash rate multiplier, phase shift for slow motion observation, slave control, several mounting options, with a removable pistol grip for easy torch like use or bench and tripod mounting. The instrument is battery powered from an internal rechargeable battery and a versatile 100-240vac charger/adaptor is supplied, the Stroboscope can be powered from the mains and operated normally while charging.

This DT-315N Professional Stroboscope is ideal for both general purpose use and condition monitoring applications, for example, non-contact speed checking, machine motion monitoring, fault diagnosis and location of faulty operations on packaging & bottling machinery and condition monitoring requirements and machine Balancing. The DT-315N can be externally triggered or it can trigger external equipment, such as balancing systems, as standard and the integral digitised frequency control provides precise manual setting of flash rate and yet gives very rapid response to changes in rate over the whole frequency range, the frequency multiply/divide feature provides rapid tracking of machine rate.

- Digital Display of flash rate and phase angle
- Continuously rated
- Phase shift mode for slow motion monitoring
- Versatile mounting options, hand held, bench or tripod
- Internal Battery powered
- Internal/external triggering
- Synch. Pulse output
- High flash power - broad area coverage
- Tripod mountable
- Strobe can be used while Battery is being charged
- Universal Charger/Adaptor 100-240vac

Display	5 Digit red 10mm LED display
Flash Energy	10w
Flash Tube	Xenon type (100m flashes)
Freq. Rate	Overall 40 - 35,000 fpm
Flash Duration	
Res.	Range 1. - 0.1 digit Range 2. - 0.2 digit Range 3. - 0.5 digit Range 4. - 1.0 digit ±0.01%

Accuracy	
Rate Multiplier	x 2 & x 1/2 features via pushbuttons
Ext. Triggering	Pulse input between 12-24vdc Multi-pin socket
Synch. Output	Standard via multi-pin socket - plug supplied
Phase Shift	Fully adjustable between 0-360° (359° ext. in speed range 40 - 10,000 rpm)
Resolution	0.1°
Phase Control	Digital in 0.1° steps
Controls	1. Two position Range switch 2. Digitiser frequency control 3. Push switch for freq/Phase selection

Memory	Control setting retained on power down
Trigger Input	5vdc & 12vdc power available for Sensors via DIN Socket
Power Input	12vdc via Charger/Adaptor supplied
Temp. cut-out	Integral temperature cut-out for overheat protection
Housing	Extruded aluminium - tripod bush in base
Battery Type	Sealed lead/acid 12v gel type

Mfrs.		<b>Price Each</b>
List No.	<b>Order Code</b>	1+
Stroboscope	DT-315N	<b>506-1878</b>

## Tachometers & Stroboscopes - continued

### Stroboscope and Tachometer

Mains Powered



- Hand held low cost stroboscope-tachometer
- Powerful xenon flash
- Adjustable stroboscope flash rate
- Rotational speed is indicated on the digital display
- Mains powered
- IEC mains inlet

Stroboscopic flash rate	100-10000 flashes per minute
Tachometer speed rate	100RPM to 10000RPM
Accuracy	± 0.05% +1 digit
Sample time	1 second
Test range	Low 100-1000 FPM/RPM, High 1000-10000 FPM/RMP
Flash duration	60-1000µs
Input voltage	230Vac ±10% 50HZ

222481

Price Each

Order Code 1+

908-230

## Visual Inspection

### Fibreoptic Visual Inspection Tool

319



319 Set

The flexible Testo 319 fibrescope allows easy visual checks in hard-to-access places. It can be inserted into hollow spaces, bores and around bends. Focus adjustment is carried out with the help of the focussing ring. The defective part can thus be examined without being dismantled. A particular feature of the Testo 319 is its easy adaptation to the demands of different applications: Whether highly flexible with a bend radius of only 50 mm, with medium flexibility or highly rigid - with different push on covers, the range of possibilities for use is broad compared to conventional fibrescopes.

#### 319 Set:

Consists of fibrescope 319, gooseneck tube, magnet and mirror attachments, bag

#### Applications:

- Inspection of heat exchangers
- Rotor blade inspection in jet engines
- Cavity wall inspection in buildings
- Searching for lost items in machines
- Refrigerant leak detection

#### Features/Benefits:

- Waterproof lens and tube and can even be immersed in oil and gasoline for short periods
- Robust and ergonomically designed
- Quick diagnosis of maintenance and repair problems
- Highly flexible with a 50mm bend radius
- LED Lamp
- 6,000 pixels
- 50° optical field of vision
- Only 6mm diameter

Fibre optical illumination field of vision	50°	Working temp. (Probe)	-20°C to +80°C
Angle field of vision	45° ± 5°	Probe diameter	6.5mm
Min. focus distance	15mm (focus)	Probe length	1247mm
Max focus distance	150mm (light)	Battery type	3 x AA

488531

Description	Mfrs. List No.	Order Code	Price Each
Fibrescope	319	147-1406	1+
Fibrescope Set	319 SET	147-1407	1+

## Weighing - General Purpose & Industrial

### Electronic Pocket Balance

CM 60-2N



W=85, D=130, H=25mm

- CM 50-C2 N only: Test weight included. Balance test software "BalanceCal Light" free downloadable on our website under "Software"
- Hard case cover. Protection against pressure and dust, with integrated pocket calculator.
- Ready for use. Batteries size AAA (2x 1.5 V) are included. AUTO-OFF function after 4 min without a change of load to preserve the batteries, disengageable.

The balance with hinged cover is highly protected against all kinds of pressure. The wallet-size can be conveniently kept in a jacket pocket so is especially suited for mobile use. The weigh in function, e.g. for mixing is extremely practical. Batteries included.

	Weighing Range (g)	Linearity (g)	Resolution (g)	Plate size (mm)
CM 60-2N	60	0.01	0.01	70 x 80

339631.409399

Mfrs.

List No.

Order Code

Price Each

1+

CM 60-2N 483-8440

### Compact Balances

EMB Series



EMB

Basic solutions at affordable prices with no loss in total weighing and tare functionality. Load the balance with the rated weight, tare to zero by pressing the TARE-key (rated weight will be memorised).

- Large LCD display: Digit height 16mm
- Mains socket
- Weigh in function/TARE
- ∅ 150mm
- Balance dimensions (WDH): 170x240x38mm
- Weight: 600g
- Battery type: 4x 1.5V AAA
- Auto power off after 4 mins

339632

Mfrs. List No.	Range (kg)	Resolution (g)	Order Code	Price Each
EMB 2200-0	2.2	1	473-9980	1+

### Compact scales 440

KERN GmbH



- The ideal starter model
- Simple 4-button operation
- Calibration program (CAL); External calibration weight
- Switchable from item count (up to 50) to weight
- Separate memory for the weight of the weighing tray and the prescription dispensing components (net)
- Battery and mains operation as standard
- weights optional
- Dimensions: Scales (complete) 165 x 230 x 80 mm

Model	Readability d (g)	Weighing range max. (g)	Minimum weight of single item/no. of items (g)
440-33 N	0.01	200	

LIN196

240961

Mfrs. List No.	Order Code	Price Each
440-33 N	129-3437	1+
440-35 N	129-3438	1+
440-45 N	129-3439	1+
440-47 N	129-3440	1+
440-53 N	129-3441	1+

### Compact Weighing Scales

MTS-1000



W=150 H=35 D=193mm. Weight 507g

Modern, portable and versatile large capacity scales that are ideal for general purpose weighing in industry, education and laboratory environments.

- Weighs in g, oz, oz t, dwt
- Impact resistant ABS case with stainless steel pan, non-slip rubber feet and removable lid
- 23mm backlit LCD display with function indicators
- Tare facility and memory function
- Parts counting from 5, 10, 20 or 50 sample pieces
- Plus/Minus weighing
- Overload warning display
- Auto power off and low battery indication
- 120mm ∅ stainless steel pan

- Supplied with weighing bowl, pan cover, 500g calibration weight and AC power adaptor

Range	Resolution	Accuracy	Power
0 to 1000g	0.1g	±0.1g	4x AA batteries (supplied)

447242.435167

Order Code	Price Each
127-6200	1+

## Bench Counting Scales

### CBC Series



- RS-232 interface
- Internal counting resolution 1:400000
- Preset tare function
- Full range tare
- Zero Tracking
- Memory accumulation
- Adjustable filters
- Pre-set counting with alarm
- Date and time
- Large backlit LCD displays
- Simple user-friendly operation
- Precision load cell technology
- Splashproof to protect from accidental spills
- Full colour coded keypad with numeric entry
- Large stainless steel pan
- Easy to use keypad
- Non-slip adjustable feet
- Overload protection
- Easy access to the rechargeable battery
- External calibration
- Rechargeable battery up to 90 hours operation
- Auto sleep / power down function to save battery life
- Low battery indication
- AC Adapter

**NEW**

### Applications

- Weighing
- Weight accumulation
- Parts counting
- Check counting
- Count accumulation

	CBC4	CBC16	CBC32
Maximum capacity	4kg	16kg	32kg
Readability	0.1g	0.5g	1g
Pan size		225x275mm	
Units of measurement	Gram (g)		Kilogram (kg)
Internal counting resolution		1:400000	
Functions	Parts counting, weighing, memory accumulation, preset count with alarm		
Calibration	Automatic External		
Display	3 x 6 digits LCD digital displays		
Power supply	Rechargeable battery or mains power		
Operating temperature	0°C to 40°C		
Dimensions	315x355x110mm		
Weight	4.1kg		

Mfrs. List No.	Maximum Capacity	Order Code	Price Each
CBC4	4kg	214-3791	1+
CBC16	16kg	214-3792	
CBC32	32kg	214-3794	

## High Precision Digital Counting Scale

**JADEVER**



- Charging indicator
- Overload protection

- External display 30,000 high division
- Multi-functions and high accuracy
- High precision loadcell
- LCD display
- Counting by sample or unit weight setting
- Auto calibration
- Quantity checking
- Power saving facility
- Built in rechargeable battery
- Accumulation memories

	499-0031
Capacity	6kg
Resolution	0.02g
Readability	0.2g
Pan Size	260x200mm
Operating temperature	0°C to 40°C
Power	AC adaptor 9V/500mA
Weight	3.5kg

Description	Order Code	Price Each
6kg	499-0031	1+

## Parcel Weighing Scales

### CPWplus Series



W=300 H=50 D=300mm. Weight 4kg

Model	CPWPLUS 35	CPWPLUS 75	CPWPLUS 150
Maximum capacity	35kg	75kg	150kg
Readability	10 g	20 g	50 g
Tare range	Full		
Repeatability	10g	20g	50g
Linearity (±)	20g	40g	100g

Model	CPWPLUS 35	CPWPLUS 75	CPWPLUS 150
Stabilisation time	Typically 2 secs		
Units	kg, lb, oz, lb:oz		
Interface	Bidirectional RS-232		
Power supply	12Vac 150mA (from supplied external adaptor) or 6x AA batteries		
Calibration	Automatic External		
Display	LCD with minimum 25mm digits		
Pan size	300 x 300mm		

Mfrs. List No.	Order Code	Price Each
CPWPLUS 35	129-7635	1+
CPWPLUS 75	129-7637	
CPWPLUS 150	129-7638	

## Hanging Scales

### HS-800 Series



- Measurements in kg or lbs/oz
- Easy to use push-button operation
- Max weight memory and tare function
- Auto power off and low battery indication
- Batteries supplied

	127-6203	127-6201
Range	0 to 5kg	0 to 25kg
Resolution	5g	20g
Accuracy	±5g	±20g
Power	3x AA	9V PP3
Dimensions (mm)	58 x 110 x 20	72 x 209 x 29
Weight	97 g	223 g

Mfrs. List No.	Capacity	Order Code	Price Each
HS-855	5kg	127-6203	1+
HS-815	25kg	127-6201	

## Digital Hanging Scales

### Hand Held



- Constructed from hi-grade ABS plastic
- Ideal for use when conventional weighing pan is inappropriate
- Incorporates a tare facility
- Requires a 9V PP3 alkaline battery

Model	393-21	393-50	393-100
Range	15kg	50kg	50kg
Resolution	15g	50g	100g
Accuracy	±0.5%	±0.5%	±0.5%

Range	Order Code	Price Each
15kg	723-0539	1+
50kg	723-0552	
50kg	494-9018	

## Crane Scales

### IHS Series



- Selectable readability for different environments
- 360° rotational hook
- Large red LED display
- Remote control for easy operation
- Rechargeable battery for up to 150 hours of usage
- Robust metal die cast housing
- Colour coded, sealed keypad
- Easy access to the rechargeable battery
- External calibration
- Full range tare
- Simple user-friendly operation

**NEW**

Maximum capacity	IHS3
Readability	3000kg
Typical stabilisation time	500g
Units of measurement	3 Sec
Power supply	Kilogram (kg)
Display	7.2VDC adaptor and internal rechargeable battery
	30mm LED

Mfrs. List No.	Maximum Capacity	Order Code	Price Each
IHS3	3000kg	214-3795	1+

## Weighing - Calibration

### Calibration Weights

#### M1 Series



#### The OIML recommendations for weights

The Organisation Internationale de Métrologie Légale has defined exactly the meteorological requirements for weights in the area of compulsory verification worldwide. Most countries are members of OIML. OIML Recommendation R111 (Edition 1994) refers to weights from 1mg to 50Kg. Declarations are made regarding among other aspects, accuracy, materials, geometric form, identification and preservation.

#### Test Weights (Standard)

When a company is certified for Quality Assurance to ISO 9001 - 9003 it accepts the obligation, in respect of control of measuring equipment, to periodically test or have all of its measuring instruments tested. This testing must be documented. Correspondingly, this applies equally to Good Laboratory Practice (GLP) and Test Laboratories to EN 45001.

- Material: Finely turned brass
- Precision weights for precision balances II and trade balances III up to  $n^* = 10\ 000d$
- For weighing with mechanical gold and carat balances

339407

Weight	Tolerance	Order Code	Price Each
			1+
1g	±1mg	494-9201	
2g	±1.2mg	494-9213	
10g	±2mg	494-9237	
20g	±2.5mg	494-9249	
100g	±5mg	494-9262	
200g	±10mg	494-9274	
500g	±25mg	494-9286	
1kg	±50mg	494-9298	
2kg	±100mg	494-9304	
5kg	±250mg	494-9316	



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