**Distance Measurement**

**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
  - Pythagoras calculation for determining distance indirectly from two other measurements
  - Pouch with Fluke logo
  - 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**

<table>
<thead>
<tr>
<th>Feature</th>
<th>FLUKE-411D</th>
<th>FLUKE-416D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range (for extended distances, use a target plate)</td>
<td>1.1 m to 30 m (0.39 ft to 100 ft)</td>
<td>0.05 m to 60 m (0.16 ft to 200 ft)</td>
</tr>
<tr>
<td>Measuring accuracy</td>
<td>±3 mm (0.118 in)</td>
<td>±1.5 mm (0.059 in)</td>
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<tr>
<td>Units displayed</td>
<td>30.00 m, 000 ft 00 in</td>
<td>30.00 m, 000 ft 00 in</td>
</tr>
<tr>
<td>Laser class</td>
<td>II</td>
<td>II</td>
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<tr>
<td>Laser type</td>
<td>355 nm, &lt; 1 mW</td>
<td>355 nm, &lt; 1 mW</td>
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<tr>
<td>Automatic power off</td>
<td>After 180 seconds</td>
<td>After 180 seconds</td>
</tr>
<tr>
<td>Continuous measurement</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Addition/subtraction</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Battery life</td>
<td>Up to 5,000 measurements</td>
<td>Up to 5,000 measurements</td>
</tr>
<tr>
<td>LCD illumination</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Data locations</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Min/Max</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Audible feedback</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Pythagoras (Indirect measurement)</td>
<td>Simple</td>
<td>Full</td>
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<tr>
<td>Ingress protection</td>
<td>IP2</td>
<td>IP54</td>
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<tr>
<td>Dimensions</td>
<td>223 mm x 50 mm x 26 mm</td>
<td>22.8 mm x 46 mm x 37 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>550 g (1.98 oz)</td>
<td>710 g (2.48 oz)</td>
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<tr>
<td>Temperature range:</td>
<td></td>
<td></td>
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<tr>
<td>Storage</td>
<td>-25 °C to 70 °C (13 °F to 104 °F)</td>
<td>-25 °C to 70 °C (13 °F to 104 °F)</td>
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<tr>
<td>Operation</td>
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<tr>
<td>Operating altitude (ISO 9022)</td>
<td>Up to 3500 m</td>
<td>Up to 3500 m</td>
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<tr>
<td>Storage humidity (at 35 °C)</td>
<td>Maximum 85% for 24 h</td>
<td>Maximum 85% for 24 h</td>
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<tr>
<td>Batteries</td>
<td>AA x 2</td>
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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

**Vibration Meter FLUKE 805**

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

- Innovative sensor design-hold probe
- 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
- 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
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- 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 Specifications**

- Measuring range: ±3 mm (0.118 in)
- Resolution: 0.05 mm (0.002 in)
- Sensitivity: 0.01 g
- Low Frequency Range: 0 Hz to 40 Hz (1/16, 000.00 ft)
- High Frequency Range: 10 Hz to 1000 Hz
- Vibration Measurement: 0 Hz to 20000 Hz
- Resolution: 0.01 g
- Acceleration: g, m/sec²
- Velocity: m/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 5,000 measurements
- Operating temperature: -20 °C to 50 °C
- IP rating: IP52
- Dimensions: 257.2 x 161.8 x 48 x 48.4 mm
- Weight: 440 g

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

**Order Code:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Price Each</th>
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</thead>
<tbody>
<tr>
<td>FLUKE-805</td>
<td>$211-4858</td>
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</table>

**Additional Features:**

- Improved visibility with backlit, three-line display
- Improved battery life from automatic shut-off
- Pythagoras calculation for determining distance indirectly from two other measurements
- Pouch with Fluke logo
- 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

**Order Code:**

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<td>$185-9634</td>
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<tr>
<td>FLUKE-416D</td>
<td>$185-9635</td>
</tr>
</tbody>
</table>

**IMPROVED BACK ORDER DELIVERY**

Receive email updates with the exact status, due date and despatch information of all your back order items farnell.com
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 automatically allowed for.

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

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

Ranges 0.5 to 19999 rpm (contact)

Resolution 0.1 up to 999.9 rpm, 1 above

Distance from Object: Max 350mm (14 inches)

Display update time 0.8 secs

± Accuracy

80 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

Resolution Range: 2 to 99999 rpm

Resolution: 0.1 rpm

Accuracy: ±0.05% + 10

TDC Range: 0 to 99999

Battery: 9v FP3 (included)

Dimensions (VWHS): 60 x 160 x 42mm

Weight: 151g

Supplied with: Reflective tape and carry pouch

Pocket Optical Tachometer 460

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

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

Hand Held LED Tachometers

- Large bright red LED 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

Accuracy ±0.02% of measured value, ± 1 digit

Distance from Object: Max 2000mm (6 feet)

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

Accuracy ±0.05% + 10

Ranges 0.1 up to 999.9 rpm, 1 above

Auto-Ranging 1 to 99999 rpm

Auto-Ranging 0.5 to 19999 rpm (contact)

Sensor: Optical with modulated light beam

Display: Large 5-digit LCD display

Resolution Range: 2 to 99999 rpm

Resolution: 0.1 rpm

Accuracy: ±0.02% of measured value, ± 1 digit

Operating Temperature: 0°C to 50°C

Teledyne Isco® Typhoon® 1000 UV-Vis Spectrophotometer
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 this instrument converts 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 6,000 mm/min
- Lengths: 0 to 7,000 in/min
- 0.02 to 99,999 m
- 0.01 to 99,999 ft
- 1 to 99,999 in
- Accuracy: ±0.20% of measured value, ±1 digit

Operating Temperature: 0°C to 40°C
Storage Temperature: -20°C to 60°C
Battery: 2 x 1.5v AA Cells

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 use on a bench and tripod mounted.

The instrument is battery powered from an internal rechargeable battery and a versatile 100-240vac charger/adapter 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 for slow motion monitoring
- Versatile mounting options, hand held, bench or tripod
- Internal battery powered

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: Phase Control
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: Svideo & 12vdc power available for Sensors via DIN Socket
Power Input: 12vdc via Charger/Adapter supplied
Temp. cut-out: Integral temperature cut-out for overheat protection
Housing: Extruded aluminium - tripod bush in base
Battery Type: Sealed lead/calcium 12v gel type

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
Accuracy: ±0.01% of fpm (+30 to +12500rpm)
Resolution: 1rpm (30 + 3 to 12500rpm)
Dimensions: 240x65x60mm
Weight: 465g

Stroboscope

476

Price Each

<table>
<thead>
<tr>
<th>Description</th>
<th>List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
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<td>321-4047</td>
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</tr>
<tr>
<td>470</td>
<td></td>
<td>321-4059</td>
<td>1+</td>
</tr>
</tbody>
</table>

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
- Optical range: 50 - 2000mm
- Angle: ±80°
- Light source: 1 mw laser 635nm class II
- Speed range: 3 - 9,999 rpm or rpm equiv
- Resolution: Max in autorange 0.001
- Accuracy: ±0.05 ± 1 digit
- Update time: 0.8 sec
- Time and count modes
- Data capture and very fast response modes
- Supplied with contact adapter, reflective tape, mini-laser, 1 metre cable and carry case
- Capture mode: 0.1 sec
- Count: 0 - 99,999 revs or length in linear
- Time interval: 0.01 - 99,999 sec (auto)
- Memory hold: Holds last reading 1 minute
- Signal Input: 3.5mm socket for external optical sensor
- Remote sensor: Mini-Laser with 1 metre cable supplied
- Power: 4x AAA batteries - supplied

<table>
<thead>
<tr>
<th>Description</th>
<th>List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tachometer</td>
<td>A2103/LSR</td>
<td>508-1751</td>
<td>1+</td>
</tr>
</tbody>
</table>
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: 1000RPM to 10000RPM
Accuracy: ±0.05% +1 digit
Sample time: 1 second
Test range: Low 100-1000FPM/RPM, High 1000-10000 FPM/RPM
Flash duration: 60-1000μs
Input voltage: 230Vac ±50HZ

Compact Balances
EMB Series

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: Dight 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

Order Code
147-1406
Price Each
1 +

Visual Inspection

Fiberoptic Visual Inspection Tool

319

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 detective 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

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
- 6000 pixels
- 50° optical field of vision
- Only 6mm diameter
- Fibre optical illumination field of vision: 50°
- Working temp. (Probe): -20° to +80°C
- Probe diameter: 6.5mm
- Probe length: 1247mm
- Battery type: 3 x AA

Fibrescope Description

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
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</tr>
</thead>
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<tr>
<td>319 SET</td>
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</table>

Weighing - General Purpose & Industrial

Electronic Pocket Balance
CM 60-2N

- 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, disengagable.

Dimensions: Scales (complete) 165 x 230 x 80 mm
Weighing Range: 0 to 200g
Linearity: 0.01
Resolution: 0.01 g
Plate size: 70 x 50 mm

Order Code
148-3440
Price Each
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
- Readability d
- Weighing range max.
- Minimum weight of single item m. of items

Order Code
440-33 N
Price Each
1 +

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
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<td>440-45 N</td>
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</tr>
<tr>
<td>440-53 N</td>
<td>129-3441</td>
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</table>

Compact Weighing Scales
MTS-1000

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
- Adaptor

Order Code
447242-143157
Price Each
1 +

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
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<th>Price Each</th>
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<tr>
<td>MTS-1000</td>
<td>129-3441</td>
<td>1 +</td>
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</table>
**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

**Applications**

- Weighing
- Weight accumulation
- Parts counting
- Check counting

<table>
<thead>
<tr>
<th>Model</th>
<th>Order Code</th>
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<td>CBC32</td>
<td>214-3794</td>
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**High Precision Digital Counting Scale**

- 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

<table>
<thead>
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<td>1+</td>
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</table>

**Parcel Weighing Scales**

**CPWPlus Series**

- Stainless steel weighing pan with remote indicator
- Large backlit LCD display
- Simple 4 button operation
- Portable with battery power
- Kg/lb/oz/oz:oz switchable
- Tare function
- Mains power adapter and wall mounting kit for display included as standard

<table>
<thead>
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</tbody>
</table>
Weighing - Calibration

Calibration Weights
M1 Series

The OIML recommendations for weights
The Organisation International 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

<table>
<thead>
<tr>
<th>Weight</th>
<th>Tolerance</th>
<th>Order Code</th>
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</thead>
<tbody>
<tr>
<td>1g</td>
<td>±1mg</td>
<td>494-9201</td>
</tr>
<tr>
<td>2g</td>
<td>±2mg</td>
<td>494-9213</td>
</tr>
<tr>
<td>5g</td>
<td>±5mg</td>
<td>494-9237</td>
</tr>
<tr>
<td>10g</td>
<td>±10mg</td>
<td>494-9249</td>
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<tr>
<td>20g</td>
<td>±20mg</td>
<td>494-9262</td>
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<tr>
<td>200g</td>
<td>±200mg</td>
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<tr>
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<td>±500mg</td>
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<td>2kg</td>
<td>±2kg</td>
<td>494-9304</td>
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<tr>
<td>5kg</td>
<td>±5kg</td>
<td>494-9316</td>
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</tbody>
</table>

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