### Coating Thickness Gages for Metals

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>PosiTector 6000</td>
<td>our most popular electronic gage for measuring coating thickness on all metals. Easy-to-use features for rugged environments.</td>
<td>3 - 6</td>
</tr>
<tr>
<td>PosiTector DFT</td>
<td>basic electronic gage for measuring coatings on all metals</td>
<td>7 - 8</td>
</tr>
<tr>
<td>PosiTector FM/GM</td>
<td>the industry standard, for measuring non-magnetic coating thickness (paint, plating, galvanizing, etc.) over steel.</td>
<td>9 - 10</td>
</tr>
<tr>
<td>PosiPen</td>
<td>small unique magnet for measuring small, hot or hard-to-reach areas on steel.</td>
<td>11 - 12</td>
</tr>
</tbody>
</table>

### Coating Thickness Gages for Non-Metals

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>PosiTector 200</td>
<td>ultrasonic coating thickness gage measures TOTAL thickness or up to 3 individual layers on wood, concrete and more</td>
<td>13 - 16</td>
</tr>
</tbody>
</table>

### Coating Thickness Gages for Uncured Powder

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>PosiTector PC</td>
<td>Non-contact Powder Checker coating thickness gage measures uncured powder and predicts cured thickness.</td>
<td>17 - 18</td>
</tr>
</tbody>
</table>

### Inspection Instruments

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>PosiTector AT</td>
<td>Adhesion Tester measures adhesion of coatings to metal, wood, concrete and other substrates. Available in two models Manual or Automatic.</td>
<td>19 - 22</td>
</tr>
<tr>
<td>PosiTector DPM</td>
<td>Measures and records climatic parameters including: air temperature, surface temperature, relative humidity, dew point temperature and the difference between surface and dew point temperatures.</td>
<td>23 - 26</td>
</tr>
<tr>
<td>PosiTector UTG</td>
<td>Ultrasonic Thickness Gage is ideal for measuring wall thickness and the effects of corrosion or erosion on tanks, pipes or any structure where access is limited to one side. Thru-Paint model available.</td>
<td>27 - 30</td>
</tr>
<tr>
<td>PosiTector SPG</td>
<td>Surface Profile Gage measures and records peak to valley surface profile heights. 2 models to choose from. Standard or Advanced.</td>
<td>31 - 32</td>
</tr>
</tbody>
</table>

### PosiTector Inspection Kits

<table>
<thead>
<tr>
<th>Inspection Kits</th>
<th>Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection Kits</td>
<td>Compact kits contain 1 gage body and 3 probe types to measure and record coating thickness, surface profile and climatic conditions.</td>
<td>33 - 34</td>
</tr>
</tbody>
</table>

### Standards

<table>
<thead>
<tr>
<th>Standards</th>
<th>Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness Standards</td>
<td>Thickness standards are ideal for checking calibration and operation of coating thickness gages and are an important component in fulfilling both ISO and in-house quality control requirements.</td>
<td>35 - 36</td>
</tr>
</tbody>
</table>
PosiTector® 6000 Series

Coating Thickness Gages for ALL Metal Substrates

WiFi

Available on the App Store

DeFelsko®

The Measure of Quality
For measuring paint, powder, etc. on all metals...

...and for measuring galvanizing, plating, anodizing and more.

**PosiTector® 6000 Series**

**All Gages Feature...**

**Simple**
- Ready to measure—no calibration adjustment required for most applications
- Enhanced one-handed menu navigation
- Flashing display—ideal in a noisy environment
- RESET feature instantly restores factory settings

**Durable**
- Solvent, acid, oil, water and dust resistant—weatherproof
- Wear-resistant probe tip
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on gage body AND probe

**Accurate**
- Certificate of Calibration showing traceability to NIST included
- Built-in temperature compensation ensures measurement accuracy
- Hi-RES mode increases displayed resolution for use on applications that require greater precision
- Conforms to national and international standards including ISO and ASTM

**Versatile**
- PosiTector body universally accepts all PosiTector 6000, SPG and DPM probes easily converting from a coating thickness gage to a surface profile gage or dew point meter
- Multiple Calibration adjustment options including 1 point, 2 point, known thickness, average zero
- Selectable display languages
- Hi Contrast backlit display for bright or dark environments
- Flip display enables right-side-up viewing
- Extended cables available (up to 75 m/250 ft) for remote measuring
- Uses alkaline or rechargeable batteries (built-in charger)

**Powerful**
- Continually displays/updates average, standard deviation, min/max thickness and number of readings while measuring
- HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
- FAST mode—faster measurement speed for quick inspection
- USB port for fast, simple connection to a PC and to supply continuous power. USB cable included
- USB mass storage—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required
- Every stored measurement is date and time stamped
- Software updates via web keep your gage current
- Connects to PosiTector.net (see far right panel)

**Probes available for a variety of applications**

**Select Substrate**
- F — for ferrous metals (steel and cast iron)
- N — for non-ferrous metals (aluminum, copper, etc.)
- FN — for all metal substrates—Gage automatically recognizes the substrate and takes a measurement

**Select Standard or Advanced Features**

**Standard Models**
- Includes ALL features as shown on left plus...
  - Monochrome display
  - Storage of 250 readings—stored readings can be viewed or downloaded

**Advanced Models**
- Includes ALL features as shown on left plus...
  - Hi Contrast reversible color LCD
  - Storage of 100,000 readings in up to 1,000 batches and sub-batches
  - Onscreen help, real time graphing, picture prompting and batch notes
  - NEW! WiFi technology wirelessly synchronizes with PosiTector.net, downloads software updates, and connects to mobile devices for expanded functionality
  - Data transfer via USB to a PC or via Bluetooth Wireless Technology to a PC or printer
  - Scan mode—take continuous readings without lifting the probe
  - Multiple stored calibration adjustments for measuring on a variety of substrate conditions
  - SSPC PA2 feature determines if film thickness over a large area conforms to user-specified min/max levels
  - PSPC 90/10 feature determines if a coating system complies with an IMO performance standard for protective coatings

**Select from a variety of measurement ranges and probe styles**
(see back page ordering guide)

Heavy-duty, gold-plated locking connector for industrial environments

Removable Built-in Probe can be detached and replaced with any one of our wide variety of probes including separate probes and microprobes
**Rugged Features...**

- Sealed USB Port for communicating with a PC or Mac
- Water and dust resistant—weatherproof
- Hi resolution color LCD
- Scratched/solvent/impact resistant lens
- Multi-function navigation button
- Solvent, acid, oil resistant, hi-grade, industrial strength housing
- Advanced Model shown in Memory mode
- Quality high-flex cable and strain relief
- Stainless steel probe with knurled finger grip
- Strong wear-resistant ruby-tipped probe

All Regular Separate Probes are suitable for underwater use

---

### Standard Model
shown in Statistics mode with shock-absorbing, protective rubber holster

### High-Range Probes
for thick coatings, e.g. fireproofing, tank linings, etc.

### Flip Display
enables right-side-up viewing

### Microprobe
series for small parts and hard-to-reach areas

---

**PosiTector.net**

where your gage meets the cloud

A free web-based application offering secure centralized management of thickness readings

- Synchronize measurement data when connected via USB or WiFi (Advanced models only)—measurements are uploaded to a secure server; images and batch notes are downloaded to your gage
- Manipulate uploaded data using a standard internet web browser from any location in the world—job site or head office
- Generate reports and graphs with annotations and user selected images
- Share measurement data with authorized users via a secure login from any computer and most web enabled devices
- Export data to XML and text files
- Visit www.defelsko.com/PosiTectorNET for a demonstration

---

**PosiTector.net by Defelsko**

where your gage meets the cloud

A free web-based application offering secure centralized management of thickness readings

- Synchronize measurement data when connected via USB or WiFi (Advanced models only)—measurements are uploaded to a secure server; images and batch notes are downloaded to your gage
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- Share measurement data with authorized users via a secure login from any computer and most web enabled devices
- Export data to XML and text files
- Visit www.defelsko.com/PosiTectorNET for a demonstration
**PosiTector 6000 Series**

**ORDERING GUIDE**

<table>
<thead>
<tr>
<th>Non-Magnetic Coatings over FERROUS Metals (Steel and Iron)</th>
<th>Standard</th>
<th>Advanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Conductive Coatings on NON-FERROUS Metals (Aluminum, Copper, etc.)</td>
<td>Standard</td>
<td>Advanced</td>
</tr>
<tr>
<td>Combination ALL METALS</td>
<td>Standard</td>
<td>Advanced</td>
</tr>
<tr>
<td>Range</td>
<td>0 – 60 mils</td>
<td>0 – 1500 μm</td>
</tr>
<tr>
<td>Non-Ferrous: 0 – 45 mils and 0 – 1150 μm</td>
<td>0 – 250 mils</td>
<td>0 – 625 μm</td>
</tr>
<tr>
<td>Ferrous: 0 – 45 mils and 0 – 1150 μm</td>
<td>0 – 250 mils</td>
<td>0 – 625 μm</td>
</tr>
<tr>
<td>0 – 500 mils</td>
<td>0 – 13 mm</td>
<td></td>
</tr>
</tbody>
</table>

**Accuracy**

- Standard: ±(0.05 mils + 1%) 0 – 2 mils
- Advanced: ±(0.02 mils + 1%) 0 – 4 mils
- Matching DeFelsko Calibration Standards: STDs1, STDs5

**Probe Details**

**REMOVABLE BUILT-IN**

- **90° REGULAR**
  - Ø16mm/0.64
  - Quick Release Adapter for 0° Probe

- **F0S & N0S with Adapter**
  - Ø10mm/0.4

<table>
<thead>
<tr>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bluetooth Printer</strong> receives data from Advanced models</td>
</tr>
<tr>
<td><strong>AC Power Kit</strong> for continuous operation or battery charging — works in any country</td>
</tr>
<tr>
<td><strong>Coating Thickness Standards</strong> to fulfill both ISO and in-house quality control requirements</td>
</tr>
<tr>
<td><strong>Rechargeable Batteries</strong> — a set of eneloop NiMH AAA batteries</td>
</tr>
<tr>
<td><strong>Protective Lens Shields</strong> protect the display from overspray</td>
</tr>
</tbody>
</table>

**ALL GAGES COME COMPLETE** with precision plastic shims, protective rubber holster with belt clip, wrist strap, 3 AAA alkaline batteries, instructions, nylon carrying case with shoulder strap, protective lens shield, Long Form Certificate of Calibration traceable to NIST, USB cable, two (2) year warranty.

**SIZE:** 137 x 61 x 28 mm (5.4" x 2.4" x 1.1")

**WEIGHT:** 140 g (4.9 oz.) without batteries

Conforms to ISO 21782/2360/2808, PrEN ISO 19840, ASTM B499/D1186/D1400/D7091/E376/G12, BS3900-C5, SSPC-PA2 and others

China Marketing: 4000240008
TEL: 86 010 82951585 82946733
Http://www.1718-show.cn

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PosiTest® DFT
Coating Thickness Gage

Ideal for...

- Powder Coaters
- Paint Applicators
- Coating Inspectors
- Painting Contractors
- Automotive Refinishers

2 Models...

Ferrous for STEEL
Combo for ALL METALS
PosiTest® DFT
Coating Thickness Gage

Two Models

- **PosiTest DFT Ferrous**
  measures non-magnetic coatings on steel.

- **PosiTest DFT Combo**
  measures both non-magnetic coatings on steel AND non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear-resistant, ruby-tipped probe
- Unique FLIP Display enables right-side-up viewing in any position
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gage
- Built-in wrist strap for added convenience and safety
- 2 Year Warranty

Specifications

<table>
<thead>
<tr>
<th>Measurement Range</th>
<th>0 – 40 mils</th>
<th>0 – 1000 μm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>± (0.1 mils + 3%)</td>
<td>± (2μm + 3%)</td>
</tr>
<tr>
<td>Size</td>
<td>4 x 1.5 x 0.9 in.</td>
<td>100 x 38 x 23 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>2.5 oz.</td>
<td>70 g</td>
</tr>
</tbody>
</table>

Gage Comes Complete with built-in probe, wrist strap, plastic shims, hard shell storage case, AAA battery, instructions and two (2) year warranty.

Unique FLIP Display enables right-side-up viewing in any position

PosiTest® Accurate & Dependable

For the non-destructive measurement of non-magnetic coatings (paint, enamel, galvanizing, metalizing, plating, etc.) on STEEL

Easily measures small parts of almost any shape

Stable design with additional tail-end support. No annoying rocking during measurement.
**PosiTest®** Accurate & Dependable

For the non-destructive measurement of non-magnetic coatings (paint, enamel, galvanizing, metalizing, plating, etc.) on STEEL

**ACCURATE**
- Certificate of Calibration showing traceability to N.I.S.T. included with every gage
- Matching Calibration Standards and Procedures available for every model
- Highly wear resistant Carbide Probe for longest life and continuous accuracy
- Remove center of dial cover for easy calibration adjustment
- Conforms to national and international standards

**DURABLE**
- Extra rugged housing, not affected by mechanical shock, water, acid or solvents
- Unique overall design, fully supported, positive positioning, no pivoting tendencies during measurement
- Can be used fully supported or with only the front probe area contacting the surface
- Functions on a permanent rare-earth cobalt magnet
- No batteries/electronics
- 2 year warranty

**EASY TO USE**
- Positive visual and audible indicators to designate when thickness reading is established
- “V” grooves in probe housing and Gage base allow correct positioning on cylindrical objects
- Compact, lightweight, precisely balanced, independent of gravity – can be used in any position
- GO/NO-GO button can be pre-set for rapid measurement
- Probe contact and dial rotation all in a one-finger operation
- Furnished with wrist strap and instructions in a high quality leather case with belt loops for your convenience

*Carbide measuring probe for long life.*

---

**FOR: Hot dip galvanizing, hard chrome metalizing, paint, enamel coatings on steel**

<table>
<thead>
<tr>
<th>Scale FM</th>
<th>0 – 80 mils</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>± 0.2 mils up to 4 mils</td>
</tr>
<tr>
<td></td>
<td>± 5% of the reading over 4 mils</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scale F</th>
<th>0 – 2000 microns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>± 5 microns up to 100 microns</td>
</tr>
<tr>
<td></td>
<td>± 5% of the reading over 100 microns</td>
</tr>
</tbody>
</table>

**FOR: Electroplating, thin paint films, phosphating on steel**

<table>
<thead>
<tr>
<th>Scale GM</th>
<th>0 – 8 mils</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>± 0.04 mils up to 0.8 mils</td>
</tr>
<tr>
<td></td>
<td>± 5% of the reading over 0.8 mils</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scale G</th>
<th>0 – 200 microns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>± 1 micron up to 20 microns</td>
</tr>
<tr>
<td></td>
<td>± 5% of the reading over 20 microns</td>
</tr>
</tbody>
</table>

---

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Measures non-magnetic coatings such as paint, enamel, plating, hot-dip galvanizing on steel.

Ideal for measuring on small, hot or hard-to-reach surfaces.
PosiPen® Coating Thickness Gage

Measures non-magnetic coatings such as paint, enamel, plating, hot-dip galvanizing on steel.

PosiPen has a very small, unique magnet which can be placed with pin-point accuracy on extremely small parts, and on peaks and valleys.

**Used for:**
- Small, hot or hard-to-reach surfaces
- Spot Checks - conveniently fits in a shirt pocket
- Hot Sprayed Coatings

**Ideal for:**
- Refineries, petrochemical plants
- Platers - electroplating, chrome, zinc, galvanizing
- Powder coaters

**Simple**
- Easy-to-Use
- Lightweight - easy to carry, just like a ball point pen

**Durable**
- No batteries/Electronics
- Rugged - not affected by mechanical shock, acid, oil, water and dust

**Accurate**
- No user adjustment required
- Certificate of Calibration traceable to NIST included
- Highly wear resistant probe tip for long life and continuous accuracy

**Triple Indicator:** compensates for gravity
1. Use the red/silver joining line when the Gage is horizontal (walls).
2. Use the green line when the Gage is pointing straight down (green/ground).
3. Use the blue line when the Gage is pointing straight up (blue/sky).

<table>
<thead>
<tr>
<th></th>
<th>English</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Range</strong></td>
<td>0.25 to 20 mils</td>
<td>5 to 500 microns</td>
</tr>
<tr>
<td><strong>Tolerance</strong></td>
<td>+/-10% and 0.1 mil</td>
<td>+/-10% and 2.5 microns</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>-150°F to +450°F</td>
<td>-100°C to +230°C</td>
</tr>
</tbody>
</table>

Conforms to National and International Standards including ASTM D7091/B499, ISO 2808 and others

**Gage comes complete** with leather pouch, instructions, Certificate of Calibration traceable to NIST, two (2) year warranty.

Each PosiPen has two scales, mils (inch) and microns (metric)

Easy to Use:
Place the tip of the PosiPen on the coated surface and allow the magnet to contact. Pull the PosiPen straight from the object to be measured while keeping close watch on the appropriate indicator. Note the reading when the magnet releases.
PosiTector® 200 Series

Coating Thickness Gages for Measuring on Wood, Concrete, Plastic and more...

Advanced Model measures up to 3 layers with graphics

Standard Model
Non-destructively measures a wide variety of applications using proven ultrasound technology. Measures the thickness of coatings over concrete, wood, composite materials and more.

All Gages Feature...

Simple
- Ready to measure – no adjustment required to measure most coatings
- One-handed menu navigation
- Bi-color indicator light – ideal in a noisy environment
- RESET feature instantly restores factory settings

Durable
- Solvent, acid, oil, water and dust resistant – meets or exceeds IP5X
- Scratch/Solvent resistant display suitable for harsh environments
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on both gage body and probe

Accurate
- Responsive transducers provide fast, accurate readings (up to 40 readings/minute)
- Proven non-destructive ultrasonic technique conforms to ASTM D6132 and ISO 2808
- Certificate of Calibration showing traceability to NIST included

Versatile
- Continually displays/updates average, standard deviation, and number of readings while measuring
- Internal memory stores up to 10,000 readings in up to 1000 batches
- Built-in clock to date and time stamp each stored measurement
- USB, IR and serial output options for simple communication with printers and PCs
- Backlit display for dim or dark environments
- Mils/Microns switchable
- Selectable display languages

Select Standard or Advanced

Standard models measure the total thickness of a coating system.

Advanced models measure total thickness of a coating system or up to 3 individual layer thicknesses in a multi-layer system. Also features graphic readout for detailed analysis of the coating system.

Advanced Model Graphic Display

Easy-to-read graphic format provides clear, detailed analysis of coatings

Standard model measuring total coating thickness on wood
**Tough NEW Features**

- USB/IR Ports for downloading to a PC or printer
- Solvent, acid, oil, water and dust resistant—meets or exceeds IP5X
- Scratch and solvent resistant lens
- Thick impact-resistant display
- Bi-color indicator light
- Hi-grade, industrial strength housing
- Quality high-flex cable and strain relief
- Shock-absorbing, protective rubber holster
- Comfortable ergonomic finger grip reduces operator fatigue
- Plastic-tipped probe will not scratch surface

**Standard model shown in Memory Mode**

**Options**

**PosiSoft® for Windows® analysis software**

- Downloads stored readings to a PC
- Allows entry of notes and annotations
- Prints and displays basic charts and histograms
- Exports to a document or spreadsheet
- Includes USB cable
- Free updates

**IR Printer** receives data from all models via wireless infrared.

**Coating Thickness Standards** fulfill both ISO and in-house quality control requirements.

**AC Power Cable** for continuous operation.

---

**Easily measure single or multiple layer coating thickness on a variety of substrates.**

Measure paint, varnish, lacquer, etc. on wood products including cabinetry, furniture, flooring, windows and more.

Measure thick protective coatings on concrete flooring, pipes, containment structures and more.

Measure protective finish topcoats over epoxy resin – commonly found in automotive, marine and aviation applications.

Visit www.defelsko.com/applications.htm to view Coating Inspection Application Notes.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>PosiTector®200 Model</th>
<th>B/Std</th>
<th>B/Adv</th>
<th>C/Std</th>
<th>C/Adv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measures Total Thickness</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Measures Individual Layers</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Graphic Display</td>
<td></td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Typical Applications</td>
<td>Polymer coatings on wood, plastic, etc.</td>
<td>Thicker coatings on concrete, fiberglass, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range*</td>
<td>13 – 1000 microns 0.5 – 40 mils</td>
<td>50 – 3800 microns 2 – 150 mils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>± (2 microns + 3% of reading)</td>
<td>± (0.1 mils + 3% of reading)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Individual Layer Thickness**</td>
<td>13 microns 0.5 mils</td>
<td>50 microns 2 mils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thickness Standard</td>
<td>DeFelsko STDA3</td>
<td>DeFelsko STDP6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Range limits apply to polymer coatings only. **For multiple layer applications only. Dependent on material being measured.

### Probe Details

**ALL GAGES COME COMPLETE** with probe, precision plastic shims, protective rubber holster with belt clip, couplant, 3 AAA batteries, instructions, nylon carrying case with shoulder strap, Certificate of Calibration traceable to NIST, two (2) year warranty.

**SIZE:** 146 x 64 x 31 mm (5.75” x 2.5” x 1.2”)

**WEIGHT:** 165 g (5.8 oz.) without batteries

Conforms to ASTM D6132 and ISO 2808
Affordably measures uncured powder coatings using non-contact ultrasonic technology to automatically calculate and display a predicted cured thickness.

Easy one-hand operation
Non-contact coating thickness gage measures uncured powder and predicts cured thickness.

Simple
- Hand-held, battery operated
- No calibration adjustment required for most powders
- Thickness results appear on both base unit and probe
- Bi-color indicator light—ideal in a noisy environment

Durable
- Solvent, acid, oil, water and dust resistant—ideal for powder coating environments
- Shock-absorbing, protective rubber holster with belt loop and magnetic mount for easy storage
- Replaceable screen protects the probe
- Two year warranty on both base unit and probe

Accurate
- Conforms to ASTM D7378
- Advanced new technology allows measurement on small tubes, odd shapes and moving parts
- Easy calibration adjustment options improve accuracy on unusual powders or substrates

Versatile
- Wireless probe communicates with base unit up to 10m away (30 feet).
  No cable to risk disturbing applied powder
- Selectable display languages
- Backlit displays for dim or dark environments
- Long battery life—uses standard alkaline batteries

Powerful
- Continuously displays/updates basic statistics including min/max and average
- USB Mass Storage of 1,000 readings in up to 100 batches
- Built-in IR port for printing stored results to an optional wireless printer
- USB port for fast and easy connection to a PC and to supply continuous power
- No download software required—gage generates formatted reports with measurement summaries and charts
- Live measurement results can be sent to a data collector or spray booth controller

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>20–110 µm (0.8–4.3 mils)</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 µm (0.05 mils)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±5 µm (±0.2 mil)</td>
</tr>
<tr>
<td>Measurement Time</td>
<td>2–5 seconds</td>
</tr>
<tr>
<td>Measurement Distance to Powder</td>
<td>18 mm (0.75 inch)</td>
</tr>
<tr>
<td>Measurement Area</td>
<td>2 mm (0.08 inch)</td>
</tr>
</tbody>
</table>

BASE UNIT
Size: 146 x 64 x 31 mm (5.75” x 2.5” x 1.2")
Weight: 165 g (5.8 oz.) without batteries

PROBE
Size: 222 x Ø50 mm (8.75” x Ø2.0")
Weight: 272 g (9.6 oz.) without batteries

GAGE COMES COMPLETE
with base unit and probe, protective rubber holster with belt loop and magnetic mount, probe fixture, 3AAA batteries (base unit), 3AA batteries (probe), instructions, instructional video, replacement probe screen, USB cable, carabiner and wrist strap, durable carrying case, two (2) year warranty.

Advanced
NEW technology
allows measurement on moving parts

China Marketing:
TEL:86 010 82951585 82946733  4000240008
Http://www.1718-show.cn

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PosiTest®
 Pull-Off Adhesion Tester

Measures adhesion of coatings to metal, wood, concrete and other substrates – revolutionary self-alignment feature and pull rate indicator.

Available in 2 models...
Manual or Automatic
**Pull-Off Adhesion Tester**

**Measures the force required to pull a specified test diameter of coating away from its substrate using hydraulic pressure.**

- Electronically controlled hydraulic pump automatically applies smooth and continuous pressure at a user-specified rate-of-pull
- AC Adapter port charges batteries or powers instrument
- USB port for downloading
- Cutting tool for isolating test area
- Environmentally sealed, one-piece metal enclosure

**Both Models Feature...**

**Simple**
- Portable – requires no external power source – ideal for lab and field use
- Pull Rate Indicator allows operator to easily monitor and adjust the rate of pull in accordance with international test methods
- Easily select dolly sizes, change measurement units or store readings, with the touch of a button
- Conversion charts not required – tester automatically calculates pressure based on dolly size
- Inexpensive, single-use dollies eliminate cleaning for re-use and can be kept as a permanent record
- Each kit comes with everything needed for testing

**Durable**
- Environmentally sealed enclosure – weatherproof, dustproof and shockproof – meets or exceeds IP65
- Can be used in any position
- Rugged carrying case
- Two year warranty

**Accurate**
- Every PosiTest Adhesion Tester pressure system is calibrated and certified to ± 1% accuracy using NIST traceable load cell
- Self-aligning aluminum dolly enables accurate measurements on smooth or uneven surfaces
- Hi-grade, industrial pressure sensor ensures continued accuracy
- Conforms to national and international standards including ASTM D4541/D7234, ISO 4624/16276-1, AS/NZS 1580.408.5 and others

**Versatile**
- Internal Memory stores maximum pull-off pressure, rate of pull, test duration and dolly size for up to 200 pulls
- Optional PosiSoft® software available for downloading
- 10, 14, 20 or 50 mm dollies maximize capability and measurement resolution across a wide range of bond strengths
- LCD displays pressure value in psi or MPa

**Self-Alignment Feature**

The PosiTest Adhesion Tester compensates for misalignment. The self-aligning, quick-coupling actuator and spherical articulating dolly head enable uniform distribution of the pulling force over the surface being tested, preventing a one-sided pull-off.

**AT-A Automatic**
- Reach difficult areas with 5 ft (1.5 m) quality flex hose
- Self-aligning, quick-coupling secures dollies to actuator
- Single-use, self-aligning dollies ensure even, consistent pull-offs

---

**Substrate**
- Uniform pull-off force
- Stand-off
- Quick coupling
- Adhesive (uneven bond-line)

---
PosiTtest® AT-M Manual Adhesion Tester

- Heavy-duty manual hydraulic pump designed to apply smooth and continuous pressure with a single stroke
- Pull Rate Indicator to manually monitor and adjust the rate of pull

PosiTtest® AT-A Automatic Adhesion Tester

- Electronically controlled hydraulic pump automatically applies smooth and continuous pull-off pressure at a user-specified rate
- Test with the simple push of a button. No twisting, pumping or cranking. No valves to close, needles to reset, or scales to adjust
- User selectable pull rates ensure compliance with international test methods for a variety of industries including metal, wood and concrete
- Built-in rechargeable batteries perform over 200 tests per charge. Continue testing with AC power while batteries charge. Supplied with universal AC Adapter

Select measurement units
Select dolly size
Select Pull Rate in accordance with international test methods
One-touch save feature stores and reviews readings in memory
On/Start
Off/Stop

Low battery indicator
Memory mode icon indicates readings are in memory

Pull Rate indicator to easily set and monitor the specified rate of pull
Large, easy-to-read LCD displays pressure during measurement and holds maximum value
The Measure of Quality

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolly Size (mm)*</td>
<td>20 mm</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 psi (0.01 MPa)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±1% Full Scale</td>
</tr>
<tr>
<td>Adhesion Strength**</td>
<td>100 – 3000 psi (0.7 – 20 MPa)</td>
</tr>
</tbody>
</table>

*Additional dolly sizes available to meet specific measuring needs – contact supplier for details. **Varies with dolly size

Both Kits include: Adhesion tester with digital display, built-in rechargeable NiMH batteries with charger, 20 mm aluminum test dollys (20), abrasive pad, cutting tool, adhesive with mixing sticks and pallettes, cotton swabs, instruction booklet and video, Certificate of Calibration traceable to NIST, two-year warranty, and sturdy, lightweight carrying case

Kit Weight (with case): 13 lbs / 6 kg
Carrying Case Dimensions: L – 17 in / 43 cm x W – 13 in / 33 cm x H – 6 in / 15 cm

Options

50 mm Accessory Kit
- Ideal for lower bond strength finishes such as coatings on wood, concrete and plastic
- Larger surface area of dolly provides improved low range precision and repeatability
- Range 50 – 500 psi (0.4 – 3.5 MPa)
- Includes 50 mm stand-off, 50 mm hole saw and 50 mm aluminum test dollies (12)

Drilling Template for 20 mm and 50 mm Dollies
- Drilling template and drill bits to isolate test area, ideal for thicker coatings on concrete

Adhesive Kit
- Additional adhesive, mixing sticks, pallettes and cotton swabs

PosiSoft® for Windows® analysis software
- Displays pressure, rate, test duration and dolly size for up to 200 pulls
- Calculates max, min, mean and standard deviation
- Prints and displays basic charts and histograms
- Real time graphing of individual pulls for a more detailed analysis of applied pressure over time (AT Manual only)
- Allows entry of notes and annotations
- Exports to a document or spreadsheet
- Multi-language support including English, German, Italian, Spanish and French
- Includes USB cable
- Free updates

Dollies
- Additional supplies of 10, 14, 20 and 50 mm dollies

China Marketing:
TEL:86 010 82951585 82946733 4000240008
Http://www.1718-show.cn

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PosiTector® DPM

Dew Point Meter

Measures and records climatic conditions including:

Relative humidity, air temperature, surface temperature, dew point temperature and difference between surface and dew point temperatures.

Ideal for surface preparation as required by ISO 8502-4.
A New Level of Confidence for painting contractors & inspectors.

Simple
- Enhanced one-handed menu navigation
- No need to consult complex tables or use a slide rule calculator
- Audio and visual alarm – indicates when climate conditions are unsuitable for painting
- All readings are constantly updated and displayed simultaneously
- RESET feature instantly restores factory settings

Durable
- Rugged, outdoor/indoor instrument
- Solvent, acid, oil, water and dust resistant – weatherproof
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on body and probe

Accurate
- Fast response precision sensors provide accurate, repeatable readings with high reliability and long term stability
- Smart Trend™ indicators identify rising, falling or stable readings
- Certificate of Calibration showing traceability to NIST included
- Conforms to national and international standards including ISO and ASTM

Versatile
- Internal Memory stores datasets with the simple touch of a button
- Auto Log Mode automatically records 5 parameters at user selected time intervals. Ideal for unattended operation.
- Every stored reading is date and time stamped
- Field calibratable
- Celsius/Fahrenheit switchable
- Selectable display languages
- Hi Contrast backlight display for bright or dark environments
- Flip display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Universal body accepts all PosiTector DPM, 6000, and SPG probes
- Hold function freezes the display allowing readings to be manually recorded
- USB port for fast, simple connection to a PC and to supply continuous power. USB cable included
- USB mass storage – stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required
- Software updates via web keep your instrument current
- Connects to PosiTector.net (see far right panel)

### DATASET

<table>
<thead>
<tr>
<th>MEASURES</th>
<th>CALCULATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH – relative humidity</td>
<td>Td – dew point temperature</td>
</tr>
<tr>
<td>Tₐ – air temperature</td>
<td>Tₛ–Td – the difference between surface and dew point temperatures</td>
</tr>
<tr>
<td>Tₛ – surface temperature</td>
<td></td>
</tr>
</tbody>
</table>

Gage Selection...

Select Standard or Advanced Features

**Standard Models**

Includes ALL features as shown on left plus...
- Monochrome display
- Storage of 2,500 datasets (RH, Tₐ, Tₛ, Tₛ–Td). Stored readings can be viewed or downloaded
- Auto Log Mode automatically records all 5 parameters at user selected time intervals. Runs unattended on batteries for up to 50 hours or continuously via USB

**Advanced Models**

Includes ALL features as shown on left plus...
- Hi Contrast reversible color LCD
- Storage of 20,000 datasets (RH, Tₐ, Tₛ, Tₛ–Td–Td) in up to 1,000 batches and sub-batches. Stored readings can be viewed or downloaded
- NEW! WiFi technology wirelessly synchronizes with PosiTector.net, downloads software updates, and connects to mobile devices for expanded functionality
- Auto Log Mode automatically records all 5 parameters at user selected time intervals. Data can be streamed via USB or WiFi at each interval. Runs unattended on batteries for up to 8 months or continuously via USB
- On screen help, real time graphing, picture prompting, and batch notes
- Data transfer via USB to a PC or via Bluetooth® Wireless Technology to a PC or printer
- User defined limits for all parameters with visible and audible warnings
- Wet Bulb temperature can be displayed
- Trend Charts graph readings in real-time

Select from 2 Probe Styles

**Built-in Probe**
- Includes built-in surface temperature sensor

**Separate Probe**
- Includes magnetic surface temperature sensor with armored cable. Ideal for unattended auto logging during work shift or at night
- Includes magnetic mount for rubber holster to attach the instrument onto steel structures
- Accepts other optional K-type sensors

**NEW!** WiFi technology wirelessly synchronizes with PosiTector.net, downloads software updates, and connects to mobile devices for expanded functionality.
Tough Features...

- Sealed USB Port for communicating with a PC or Mac
- Water and dust resistant – weatherproof
- Hi resolution color LCD
- Scratch/solvent/impact resistant lens
- Advanced model shown in Memory and Alarm Modes
- Universal body accepts all PosiTector DPM, 6000 and SPG probes
- Solvent, acid, oil resistant, hi-grade, industrial strength housing
- Multi-function navigation button
- Shock-absorbing, protective rubber holster with belt clip and wrist strap
- Air temperature and humidity sensor
- White sensor housing reduces the effect of direct sunlight
- Built-in thermocouple surface temperature sensor

Example of Advanced model with Auto Log Display

- Batch Number
- Number of stored datasets
- All 5 parameters are constantly updated and displayed simultaneously
- Smart Trend™ Indicators identify rising, falling or stable readings
- Countdown timer

A free web-based application offering secure centralized management of measurement data

- Synchronize measurement data when connected via USB or WiFi (Advanced models only) – readings are uploaded to a secure server; images and batch notes are downloaded to your instrument
- Manipulate uploaded data using a standard internet web browser from any location in the world—jobsite or head office
- Generate reports and graphs with annotations and user selected images
- Share measurement data with authorized users via a secure login from any computer and most web enabled devices
- Export data to XML and text files
- Visit www.defelsko.com/PosiTectorNET for a demonstration

Flip Display enables right-side-up viewing in any position

Standard models shown
Universal body accepts all PosiTector®
DPM, 6000 and SPG probes

Additional K-type Sensors for use with separate probe

- **Hand-held Surface Temperature Sensor** – for spot checking hard-to-reach surfaces
- **Self-adhering Surface Temperature Sensor** – sticks to solid materials including aluminum, wood, concrete, etc. Ideal for unattended monitoring
- **Liquid Temperature Sensor** – general purpose sensor with stainless steel shaft

**Accessories**

- **Bluetooth™ Printer** receives data from Advanced models
- **Rechargeable Batteries** – a set of eneloop NIMH AAA batteries
- **AC Power Kit** for continuous operation or battery charging – works in any country
- **Protective Lens Shields** protect the display from overspray

<table>
<thead>
<tr>
<th>Probe Style</th>
<th>Built-in</th>
<th>Separate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ordering Guide</strong></td>
<td>DPM1</td>
<td>DPMS1</td>
</tr>
<tr>
<td>Standard</td>
<td>DPM3</td>
<td>DPMS3</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th></th>
<th>Range</th>
<th>Accuracy</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surface Temperature</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>−40° to 80° C</td>
<td>± 0.5° C</td>
<td></td>
<td>0.1° C</td>
</tr>
<tr>
<td>80° to 190° C</td>
<td>± 1.5° C</td>
<td></td>
<td>0.1° C</td>
</tr>
<tr>
<td>−40° to 175° F</td>
<td>± 1° F</td>
<td></td>
<td>0.1° F</td>
</tr>
<tr>
<td>175° to 375° F</td>
<td>± 3° F</td>
<td></td>
<td>0.1° F</td>
</tr>
<tr>
<td><strong>Air Temperature</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>−40° to 80° C</td>
<td>± 0.5° C</td>
<td></td>
<td>0.1° C</td>
</tr>
<tr>
<td>−40° to 175° F</td>
<td>± 1° F</td>
<td></td>
<td>0.1° F</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td></td>
<td>± 3%</td>
<td>0.1%</td>
</tr>
</tbody>
</table>

**All Instruments Come Complete** with humidity, air and surface temperature sensors, protective rubber holster with belt clip, wrist strap, 3 AAA alkaline batteries, instructions, nylon carrying case with shoulder strap (Built-in probe models), hard shell carrying case (Separate probe models), protective lens shield, Long Form Certificate of Calibration traceable to NIST, USB cable, two (2) year warranty.

**Size:** 159 x 61 x 31 mm (6.25 x 2.4 x 1.2 in.)

**Weight:** 150 g (5.3 oz.) without batteries

Conforms to ISO 8502-4, BS 7079-B4, ASTM D3276 and US Navy NSI 009-32, IMO PSPC, SSPC-PA7 and others

China Marketing:
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PosiTector UTG
Ultrasonic Thickness Gage

Measures the wall thickness of materials such as steel, plastic and more

UTG M Thru-Paint models measure the metal thickness of a painted structure without having to remove the coating.

UTG C3 Advanced model shown with Corrosion Probe

DeFelsko®
The Measure of Quality

WiFi
Available on the App Store
All Gages Feature...

Simple
■ Enhanced one-handed menu navigation
■ Pre-programmed velocities—simply select from a list of common materials or enter your own with ease
■ SmartCouple™ mode eliminates unintentional decoupling—ensures continuous measurements while measuring on scaled or pitted surfaces—ideal for analyzing large areas using multiple passes
■ Flashing display—ideal in a noisy environment
■ RESET feature instantly restores factory settings

Durable
■ Solvent, acid, oil, water and dust resistant—weatherproof
■ Impact resistant lens
■ Shock-absorbing, protective rubber holster with belt clip
■ Two year warranty on body AND probe

Accurate
■ Precision transducers provide fast, accurate readings
■ Certificate of Calibration showing traceability to NIST included
■ Conforms to national and international standards including ASTM E797
■ Built-in temperature compensation ensures measurement accuracy

Versatile
■ Universal Gage Body accepts all PosiTector UTG, 6000, DPM and SPG probes
■ Flip display enables right-side-up viewing
■ Selectable display languages
■ Hi contrast backlit display for bright or dark environments
■ Single or two point adjustment
■ Inch/mm switchable
■ Uses alkaline or rechargeable batteries (built-in charger)

Powerful
■ Min Scan mode—measurement rate of up to 20 readings per second with onscreen min/max for quick inspection over a large area
■ Continuously displays/updates average, standard deviation, min/max thickness and number of readings while measuring
■ HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
■ Screen Capture—record and save screen images into USB flash memory for record keeping and review
■ USB port for fast, simple connection to a PC and to supply continuous power. USB cable included
■ Every stored measurement is date and time stamped
■ Software updates via web keep your gage current
■ Connects to PosiTector.net (see next page)

Select from 2 Probe Styles

UTG C – Corrosion Probe
Measures the wall thickness of materials such as steel, plastic and more. Ideal for measuring the effects of corrosion or erosion on tanks, pipes, or any structure where access is limited to one side
■ 5 MHz dual element transducer with durable PEEK probe tip
■ Automatic V-Path compensation for thin materials

UTG M – Multiple-Echo Probe
Features Thru-Paint capability to quickly and accurately measure the metal thickness of a painted structure without having to remove the coating. The most accurate method to measure the remaining wall thickness of a painted structure because it automatically disregards the coating, lowering inspection time and expense. Also ideal for measuring on sandblasted materials or other applications requiring a durable wear face.
■ 5 MHz contact probe with wear resistant Alumina probe tip
■ Multiple Echo technique averages 3 or more echoes for accurate and reliable readings
■ Toggle easily between
  – Multiple Echo mode to eliminate coating thickness and...
  – Single Echo mode to detect pits and flaws, and to increase the measurement range

Gage Selection

Select Standard or Advanced Features

Standard Models
Includes ALL features as shown on left plus...
■ Monochrome display with transflective technology enhances sunlight readability
■ Storage of 250 readings—stored readings can be viewed or downloaded

Advanced Models
Includes ALL features as shown on left plus...
■ Hi contrast reversible color LCD
■ Storage of 100,000 readings in up to 1,000 batches and sub-batches
■ Store thickness, profile and environmental measurements in individual batches
■ Onscreen help, real time graphing, picture prompting, and more...
■ Onscreen batch annotation—add notes and change batch names with the built-in keyboard
■ NEW! WiFi technology wirelessly synchronizes with PosiTector.net, downloads software updates, and connects to mobile devices for expanded functionality
■ Data transfer via USB to a PC or via Bluetooth Wireless Technology
■ A-Scan with adjustable Gain and screen capture
■ B-Scan—displays a cross sectional profile of the test material

NEW!
WiFi technology wirelessly synchronizes with PosiTector.net, downloads software updates, and connects to mobile devices for expanded functionality

USB mass storage—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers.
No software required
**Tough NEW Features**

- Sealed USB port for communicating with a PC or Mac
- Water and dust resistant—weatherproof
- Hi Resolution Color LCD
- Advanced model shown in B-Scan
- Scratch, solvent, and impact resistant lens
- Solvent, acid, oil resistant, hi-grade, industrial housing
- Multi-function navigation button
- Shock-absorbing, protective rubber holster
- Zero Plate
- Quality high-flex cable and strain relief

---

**SYNC**

- Synchronize measurement data when connected via USB or WiFi (Advanced models only)—readings are uploaded to a secure server; images and batch notes are downloaded to your instrument
- Manipulate uploaded data using a standard internet web browser from any location in the world—jobsite or head office
- Generate reports and graphs with annotation and user selected images
- Share measurement data with authorized users via a secure login from any computer and most web enabled devices
- Export data to XML and text files
- Visit www.defelsko.com/PosiTectorNET for a demonstration

---

**PosiTector.net** by DeFelsko

- Included web-based application offers secure centralized management of measurement data

---

**UTG M Multiple Echo Thru-Paint** probe measures the thickness of a painted structure without having to remove the coating.

---

**UTG C3 Advanced model**

Measure the thickness of metal, plastics and more

---

Visit www.defelsko.com/applications.htm to view Inspection Application Notes
**Probe Details**

<table>
<thead>
<tr>
<th>Probe Style</th>
<th>UTG C - CORROSION</th>
<th>UTG M - MULTIPLE ECHO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Model</strong></td>
<td>UTG C1</td>
<td>UTG M1</td>
</tr>
<tr>
<td><strong>Advanced Model</strong></td>
<td>UTG C3</td>
<td>UTG M3</td>
</tr>
<tr>
<td><strong>Probe Type</strong></td>
<td>5 MHz Dual Element</td>
<td>5 MHz Contact</td>
</tr>
<tr>
<td><strong>Mode</strong></td>
<td>Single Echo</td>
<td>Single Echo</td>
</tr>
<tr>
<td></td>
<td>Multiple Echo</td>
<td></td>
</tr>
<tr>
<td><strong>Measurement Range</strong></td>
<td>0.040&quot; to 5.000&quot;</td>
<td>0.100&quot; to 5.000&quot;</td>
</tr>
<tr>
<td></td>
<td>1.00 to 125.00 mm</td>
<td>2.50 to 125.00 mm</td>
</tr>
<tr>
<td><strong>Thru-Paint Capability</strong></td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td><strong>Measurement Rate - Normal</strong></td>
<td>6 readings/sec</td>
<td>4 readings/sec</td>
</tr>
<tr>
<td><strong>Measurement Rate - Scan</strong></td>
<td>20 readings/sec</td>
<td>4 readings/sec</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>0.01&quot;</td>
<td>0.01&quot;</td>
</tr>
<tr>
<td></td>
<td>0.01 mm</td>
<td>0.01 mm</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±0.001&quot;</td>
<td>±0.001&quot;</td>
</tr>
<tr>
<td></td>
<td>±0.03 mm</td>
<td>±0.03 mm</td>
</tr>
</tbody>
</table>

* Measurement range is for carbon steel and depends upon surface condition, temperature and material.

**Universal Gage Body**

- Universal Gage Body accepts all PosiTector UTG, 6000, SPG and DPM probes

**Accessories**

- Calibration Test Block to fulfill both ISO and in-house quality control requirements
- Bluetooth™ Printer receives data from Advanced models
- Rechargeable Batteries—a set of eneloop NiMH AAA batteries
- AC Power Kit for continuous operation or battery charging—works in any country
- Protective Lens Shields protect the display from overspray and debris

**Universal Gage Body**

- Universal Gage Body accepts all PosiTector UTG, 6000, SPG and DPM probes

**Probe Details**

<table>
<thead>
<tr>
<th>UTG C – CORROSION</th>
<th>UTG M – MULTIPLE ECHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm / 1.0&quot;</td>
<td>30mm / 1.2&quot;</td>
</tr>
<tr>
<td>Ø13mm / 0.5&quot;</td>
<td>Ø13mm / 0.5&quot;</td>
</tr>
</tbody>
</table>

**Ordering Guide**

All Gages come complete with body and probe, couplant, protective rubber holster, belt clip, wrist strap, 3 AAA alkaline batteries, instructions, nylon carrying case with shoulder strap, protective lens shield, Long Form Certificate of Calibration traceable to NIST, USB cable, PosiTector.net account, two (2) year warranty.

**Size:** 146 x 61 x 28 mm (5.75” x 2.4” x 1.1”)

**Weight:** 140 g (4.9 oz.) without batteries

Conforms to ASTM E797
PosiTector® SPG
Surface Profile Gage

Measures and records peak to valley surface profile height

DeFelsko®
The Measure of Quality
WiFi
Available on the App Store
Weatherproof
All Gages Feature...

Simple
- Fast measurement rate of over 50 readings per minute – ideal for quickly and accurately measuring large surface areas
- Enhanced one-handed menu navigation
- RESET feature instantly restores factory settings

Durable
- Solvent, acid, oil, water and dust resistant – weatherproof
- 60° angle tungsten carbide tip for long life and continuous accuracy – field replaceable
- Rugged, outdoor/indoor instrument – ideal for field or shop use
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on body and probe

Accurate
- Built-in temperature compensation ensures measurement accuracy
- Certificate of Calibration showing traceability to NIST included
- Glass zero plate and metal shim included
- Conforms to national and international standards including ISO and ASTM

Versatile
- Universal gage body accepts ALL PosiTector SPG, DPM and 6000 probes
- 30° angle interchangeable probe tip available for special applications
- Selectable display languages
- Hi Contrast backlit display for bright or dark environments
- Flip display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Continually displays/updates average, standard deviation, min/max thickness and number of readings
- HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
- Every stored measurement is date and time stamped
- USB port for fast, simple connection to a PC and to supply continuous power. USB cable included
- USB mass storage – stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required
- Software updates via web keep your gage current
- Connects to PosiTector.net

Select Standard or Advanced Features

Standard Model
Includes ALL features as shown on left plus...
- Monochrome display
- Storage of 250 readings – stored readings can be viewed or downloaded

Advanced Model
Includes ALL features as shown on left plus...
- Hi Contrast reversible color LCD
- Storage of 100,000 readings in up to 1,000 batches and sub-batches
- SmartBatch™ allows entry of user-defined parameters and criteria to comply with various standards and test methods
- On screen help, real time graphing, picture prompting and batch notes
- NEW! WIFI technology wirelessly synchronizes with PosiTector.net, downloads software updates, and connects to mobile devices for expanded functionality
- Data transfer via USB to a PC or via Bluetooth® Wireless Technology to a PC or printer

Accessories
- Replacement Tungsten Carbide Probe Tips – 2 angles available 60° or 30°, includes replacement tool
- Bluetooth® Printer receives data from Advanced Models
- AC Power Kit for continuous operation or battery charging – works in any country
- Rechargeable Batteries – a set of eneloop NiMH AAA batteries
- Protective Lens Shields protect the display from overspray

All Gages Come Complete with glass zero plate, metal shim, protective rubber holster with belt clip, wrist strap, 3 AAA alkaline batteries, instructions, nylon carrying case with shoulder strap, protective lens shield, Long Form Certificate of Calibration traceable to NIST, USB cable, two (2) year warranty.

Size:
137 x 61 x 28 mm
(5.4" x 2.4" x 1.1")

Weight:
140 g (4.9 oz.)
without batteries

Conforms to ASTM D4417-B, AS 3894.5-C (with optional 30° tip angle), U.S. Navy NSI 009-32, SANS 5772 and others

PosiTector SPG Ordering Guide

<table>
<thead>
<tr>
<th>PosiTector SPG Ordering Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
</tr>
<tr>
<td>Advanced</td>
</tr>
<tr>
<td>Range</td>
</tr>
<tr>
<td>Accuracy</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

DeFelsko® The Measure of Quality

China Marketing:
TEL:86 010 82951585 82946733 4000240008
Http://www.1718-show.cn
PosiTector Inspection Kits

Each Inspection Kit contains:
- PosiTector Gage Body – Standard or Advanced
- PosiTector 6000 Coating Thickness Probe – select from a variety of measurement ranges and probe styles
- PosiTector DPM Environmental Probe
- PosiTector SPG Surface Profile Probe

WiFi

Available on the App Store

DeFelsko® The Measure of Quality
PosiTector body accepts all PosiTector 6000, DPM, and SPG probes easily converting from a coating thickness gage to a dew point meter or surface profile gage.

**Select Standard or Advanced Features**
for a complete comparison visit [www.defelsko.com/kits/kit_features.htm](http://www.defelsko.com/kits/kit_features.htm)

**Standard--- Model Inspection Kits**
Each Standard Kit contains the PosiTector Standard gage body and 3 interchangeable probes – coating thickness, environmental and surface profile.

**Features include**
- Monochrome display
- Gage stores readings for one probe at a time

**Coating Thickness with Standard models**
- Storage of 250 readings – stored readings can be viewed or downloaded

**Environmental Monitoring with Standard models**
- Storage of 2,500 datasets (RH, Ta, Ts, Td, Ts-Td). Stored readings can be viewed or downloaded.
- Auto Log Mode automatically records all 5 parameters at user selected time intervals. Runs unattended on batteries for up to 50 hours or continuously via USB

**Surface Profile with Standard Models**
- Storage of 250 readings – stored readings can be viewed or downloaded

**Advanced Model Inspection Kits**
Each Advanced Kit contains the PosiTector Advanced gage body and 3 interchangeable probes – coating thickness, environmental and surface profile.

**Features include**
- Hi Contrast reversible color LCD
- Storage of 100,000 readings in up to 1,000 batches and sub-batches. Easily store thickness, climatic conditions and profile height in multiple batches.
- Onscreen batch annotation - add notes, change batch names and more with built-in QWERTY keyboard
- Onscreen help, real time graphing, picture prompting and batch notes
- **NEW!** WiFi technology wirelessly synchronizes with PosiTector.net, downloads software updates, and connects to mobile devices for expanded functionality
- Data transfer via USB to a PC or via Bluetooth Wireless Technology to a PC or printer

**Coating Thickness with Advanced models**
- Multiple stored calibration adjustments for measuring on a variety of substrate conditions
- SSPC PA2 feature determines if film thickness over a large area conforms to user-specified min/max levels
- PSPC 90/10 feature determines if a coating system complies with an IMO performance standard for protective coatings

**Environmental Monitoring with Advanced models**
- Storage of 20,000 datasets (RH, Ta, Ts, Td, Ts-Td) in up to 1,000 batches and sub-batches. Stored readings can be viewed or downloaded.
- Auto Log Mode automatically records all 5 parameters at user selected time intervals. Data can be streamed via USB or Bluetooth at each interval. Runs unattended on batteries for up to 8 months or continuously via USB
- User defined limits for all parameters with visible and audible warnings
- Wet bulb temperature can be displayed
- Trend charts graph readings in real-time

**Surface Profile with Advanced models**
- SmartBatch™ allows entry of user-defined parameters and criteria to comply with various standards and test methods

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Each Inspection kit contains:
- PosiTector Gage Body – Standard or Advanced
- PosiTector 6000 Coating Thickness Probe – select from a variety of measurement ranges and probe styles
- PosiTector DPM Environmental Probe
- PosiTector SPG Surface Profile Probe

**Ordering Guide**

<table>
<thead>
<tr>
<th>Inspection Kit</th>
<th>PosiTector Body</th>
<th>Coating Thickness Probe</th>
</tr>
</thead>
<tbody>
<tr>
<td>KITF1</td>
<td>Standard</td>
<td>6000-F</td>
</tr>
<tr>
<td>KITFS1</td>
<td>Standard</td>
<td>6000-FS</td>
</tr>
<tr>
<td>KITFN1</td>
<td>Standard</td>
<td>6000-FN</td>
</tr>
<tr>
<td>KITFNS1</td>
<td>Standard</td>
<td>6000-FNS</td>
</tr>
<tr>
<td>KITF3</td>
<td>Advanced</td>
<td>6000-F</td>
</tr>
<tr>
<td>KITFS3</td>
<td>Advanced</td>
<td>6000-FS</td>
</tr>
<tr>
<td>KITFN3</td>
<td>Advanced</td>
<td>6000-FN</td>
</tr>
<tr>
<td>KITFNS3</td>
<td>Advanced</td>
<td>6000-FNS</td>
</tr>
</tbody>
</table>

Kits come complete with a gage body (Standard or Advanced), coating thickness probe (user selected), environmental probe, surface profile probe, precision plastic shims, glass zero plate and metal shim, protective rubber holster with belt clip, wrist strap, 3 AAA alkaline batteries, 3 instruction manuals, hard shell case, protective lens shield, 3 Long Form Certificates of Calibration traceable to NIST, USB cable and 2 year warranty on gage body and probes.

**Case Size:**
- 30 cm (l) x 25 cm (w) x 10 cm (d)
- 12” (l) x 10” (w) x 4” (d)

**Weight:** 1.3 kg (2.8 lbs.)

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China Marketing:
TEL:86 010 82951585 82946733 4000240008
Http://www.1718-show.cn
Certified coating thickness standards are ideal for verifying the accuracy and operation of coating thickness gages and are an important component in fulfilling both ISO and in-house quality control requirements.

Many organizations require verification of gage accuracy at the test site each time a coating thickness gage is put into service and at frequent intervals during use. Ideal for this purpose, DeFelsko certified coating thickness standards have measured values traceable to a National Metrology Institution.

Certified Coated Metal Plates and Polystyrene Blocks

- Used to verify the accuracy and operation of any Type 1 (mechanical) and Type 2 (electronic) magnetic, eddy-current or ultrasonic coating thickness gage
- Ideal for use in the calibration lab, in the field or on the factory floor
- Standards with steel or aluminum substrates consist of 4 plates mounted in a protective binder
- Polystyrene thickness standards consist of 4 blocks supplied in a rugged acrylic storage box
- Individually serialized for traceability to NIST or PTB - includes a Certificate of Calibration
- Certified and labeled in both Metric and Imperial units

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Ideal for</th>
<th>Approximate Thickness</th>
<th>Coating/Substrate</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>PosiTector 6000 F, FS, FRS, FN, FNS, FNRS</td>
<td>3 mils 25 mils 150 mils</td>
<td>Epoxy on Steel (Ferrous)</td>
<td>+/- 0.43 µm +/- 0.017 mil</td>
</tr>
<tr>
<td>S2</td>
<td>PosiTector 6000 F0S, F45S, F90S</td>
<td>3 mils 10 mils 40 mils</td>
<td>Epoxy on Aluminum (Non-Ferrous)</td>
<td>+/- 0.43 µm +/- 0.017 mil</td>
</tr>
<tr>
<td>P1</td>
<td>PosiTector 6000 FT, FTS, NTS, FNTS</td>
<td>3 mils 80 mils 185 mils</td>
<td>Polystyrene Blocks</td>
<td>+/- (2.5 µm + 0.05% of thickness) +/- (0.1 mil + 0.05% of thickness)</td>
</tr>
<tr>
<td>P2</td>
<td>PosiTector 6000 FHS, NHS, EOC</td>
<td>500 mils 19 mm 750 mils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P3</td>
<td>PosiTector 100C</td>
<td>15 mils 60 mils 250 mils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P4</td>
<td>PosiTector 100D</td>
<td>15 mils 100 mils 250 mils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P5</td>
<td>PosiTector 6000 FKS, NKS</td>
<td>15 mils 60 mils 250 mils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P6</td>
<td>PosiTector 200C</td>
<td>15 mils 60 mils 100 mils</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DeFelsko Plastic Shims

- Simulate a coating over a particular substrate material or shape. Gage performance can be conveniently verified on a regular basis as required by some international test methods.
- For use with all Type 2, electronic coating thickness gages.
- Protects the probe from damage or premature wear when placed over hot or abrasive surfaces.
- Can be placed on top of soft or tacky coating films to obtain thickness measurements without the gage probe depressing the coating film.

Certified Plastic Shims

- Certified shims provide an economical alternative to Coated Metal Plates but have a reduced accuracy.
- Each shim is packaged in its own protective plastic pouch.
- Certificate of Calibration showing traceability to NIST is included with each shim or set of shims.
- Certified and labeled in both Metric and Imperial units.

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Approximate Thickness</th>
<th>Color</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS1</td>
<td>25 μm (1 mil)</td>
<td>Orange</td>
<td>+/- 20%</td>
</tr>
<tr>
<td>CS2</td>
<td>50 μm (2 mils)</td>
<td>Red</td>
<td>+/- 10%</td>
</tr>
<tr>
<td>CS3</td>
<td>75 μm (3 mils)</td>
<td>Green</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>CS5</td>
<td>125 μm (5 mils)</td>
<td>Blue</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>CS10</td>
<td>250 μm (10 mils)</td>
<td>Brown</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>CS20</td>
<td>500 μm (20 mils)</td>
<td>Yellow</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>CS40</td>
<td>1000 μm (40 mils)</td>
<td>White</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>CS60</td>
<td>1500 μm (60 mils)</td>
<td>Black</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>CSS</td>
<td>Complete set of 8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Non-Certified Plastic Shims

- Provide a quick operational check of the instrument by allowing the user to perform practice measurements.
- Can be used to protect the probe when measuring on tacky, rough or hot surfaces.
- Labeled in both Metric and Imperial units.
- Available as a set of 5 (below).

<table>
<thead>
<tr>
<th>Approximate Thickness</th>
<th>Color</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 μm (1 mil)</td>
<td>Orange</td>
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<td>50 μm (2 mils)</td>
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</tr>
<tr>
<td>125 μm (5 mils)</td>
<td>Blue</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>250 μm (10 mils)</td>
<td>Brown</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>500 μm (20 mils)</td>
<td>Yellow</td>
<td>+/- 5%</td>
</tr>
</tbody>
</table>

A package of 5 non-certified shims is included with all DeFelsko electronic coating thickness gages (Type 2).

Note: Shims are generally not acceptable for use with Type 1, magnetic pull-off gages such as the PosiTest FM/GM and PosiPen.
DeFelsko Corporation, a U.S. manufacturer of coating thickness gages and inspection instruments, has been providing **Simple, Durable and Accurate** gages since 1966.

Our state-of-the-art facility in Ogdensburg, New York houses research, manufacturing, sales, service, and shipping departments. Every gage is inspected under our strict quality guidelines.

In addition to high product quality we are proud to offer the **DeFelsko Advantage:**

**Technical Support**
Our highly trained technical support team is dedicated to solving problems quickly. Call or email our technical department for all questions including order status, sales, technical, quality & calibration, accounting, shipping or general information.

**Fast Service**
Our service department's goal is to evaluate your gage and contact you within one (1) day of our receiving the gage in for service or calibration.

**On-Site Manufacturing**
All parts are available on-site which gives us the ability to repair gages quickly and ship most gages within one day anywhere in the world.

**DeFelsko®**

**Contact Information**

China Marketing:
TEL: 86 010 82951585 82946733  4000240008
Http://www.1718-show.cn

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