

Coating Thickness and Inspection Instruments

DeFelsko®
The Measure of Quality



HOLIDAY/PINHOLE DETECTION

COATING THICKNESS



SALT CONTAMINATION

ADHESION



HARDNESS

ENVIRONMENTAL CONDITIONS



SURFACE PROFILE

ULTRASONIC WALL THICKNESS



CONCRETE MOISTURE

VERIFICATION STANDARDS



COATING THICKNESS

Coatings on Metals

PosiTector® 6000

Coating thickness gages measure on all metal substrates. Select from a variety of measurement ranges and probe styles including cabled probes, microprobes and the new **Xtreme Series** for measuring on hot or rough surfaces.

All Gages Feature:

- Fast measurement speed of 60+ readings per minute. Enhanced Fast Mode increases speed to 90+ per minute for quick inspection.
- Ready to measure—no adjustment required for most applications
- Solvent, acid, oil, water, and dust resistant—weatherproof
- Shock-absorbing, protective rubber holster with belt clip
- Displays average, standard deviation, min/max, number of readings
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Includes free PosiSoft suite of software for analyzing and reporting data
- Conforms to national and international standards including ISO and ASTM



Select Standard or Advanced:



Standard models feature

- Storage of 250 readings per probe

Advanced models feature

- Storage of 100,000 readings from multiple probes in up to 1,000 batches and sub-batches
- WiFi technology wirelessly synchronizes with PosiSoft.net
- Bluetooth 4.0 Technology for data transfer to a mobile device running the PosiTector App or optional portable printer
- 3 Scan modes—increase measurement speed to 180+ readings per minute
- SSPC-PA2 feature determines if film thickness conforms to min/max specs

Variety of Measurement Ranges and Probe Styles:

- Removable probes can be detached and replaced with any one of our wide variety of probes
- Ferrous, Non-Ferrous, and Combination probes are available as integral and/or cabled versions with a wide variety of measurement ranges and styles
- Extended cables available (up to 75 m/250 ft) for underwater or remote measuring



Coatings on Non-Metals

PosiTector® 200

Ultrasonic coating thickness gages measure up to 7,600 μm (300 mils) of protective coatings over wood, concrete, plastics, and more.

3 models available:

PosiTector 200 B—for measuring polymer coatings on wood, plastic, etc.

PosiTector 200 C—for measuring coatings on concrete, fiberglass, etc.

PosiTector 200 D—for measuring thick, soft coatings such as polyurea

- Advanced models measure up to 3 individual layer thicknesses in a multi-layer system
- Provides a graphic readout for detailed analysis of the coating system



PosiTest® PC

Powder Checker thickness gages affordably measure uncured powder coatings using non-contact ultrasonic technology to automatically calculate and display a predicted cured thickness. Help control powder consumption to ensure adequate coverage and reduce waste.

- Improved sensor technology allows easier measurement on small tubes, odd shapes and moving parts



PosiTest® DFT

Measures coatings on metal substrates. It is the economical choice that retains the uncompromising quality of DeFelsko coating thickness and inspection instruments.



Magnetic pull-off gages for the non-destructive measurement of non-magnetic coatings on steel. No batteries or electronics.

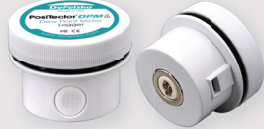


ENVIRONMENTAL CONDITIONS

PosiTector® *DPM*

Dew Point Meters measure and record climatic conditions including relative humidity, air temperature, surface temperature, dew point temperature, and the difference between surface and dew point temperatures—ideal for surface preparation as required by ISO 8502-4.

- Fast response precision sensors provide accurate, repeatable readings
- Auto Log mode records environmental parameters at user selected time intervals
- Select from integral, cabled, infrared, and anemometer probes



PosiTector *DPM* Integral Probe

PosiTector *DPM L* Dew Point Meter Logger



PosiTector *DPM IR*
Integral Probe with Infrared
Surface Temperature Sensor



PosiTector *DPM A*
Integral Probe with Wind
Speed Sensor



PosiTector *DPM D*
Cabled Probe with
1/2" NPT Threads



PosiTector *DPM S*
Integral Probe with Cabled
Surface Temperature Sensor



PosiTector® *IRT*

Infrared Thermometers measure surface temperature from a distance using non-contact infrared technology—ideal for areas where conventional sensors will not work, including: hard to reach areas, moving parts, and objects too hot for direct contact sensors.

- Selectable emissivity levels
- Button-activated laser pointer for accurate targeting



PosiTector® *CMM IS*

Concrete Moisture Meter In-Situ measures relative humidity and temperature in concrete floor slabs. Collect measurements and generate reports in conformance with ASTM F2170, *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes*.

- Wirelessly connect to the PosiTector App (iOS/Android) and PosiTector *DPM Advanced* models via Bluetooth



SURFACE PROFILE

PosiTector® *SPG*

Surface Profile Gages measure and record peak-to-valley surface profile heights on blasted metal, concrete and textured coatings with a depth micrometer fitted with a fine pointed probe. Includes an alumina wear face and tungsten carbide tip for long life and continuous accuracy.

- Probes available for measuring blasted steel, textured coatings, and concrete profile
- NEW PosiTector *SPG OS*** probe features proprietary OD mode for measuring on convex surfaces

PosiTector *SPG* - Integral Probe

PosiTector *SPG OS* - For Convex Surfaces



PosiTector *SPG S* - Cabled Probe



PosiTector® *RTRH*

Digital spring micrometers measure and record surface profile parameters using Testex Press-O-Film™ replica tape.

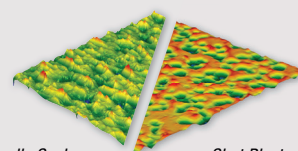
- Improved peak-to-valley height accuracy over conventional (spring) micrometers
- Linearization feature increases measurement accuracy and reduces tape consumption



PosiTector® *RTR3D*

The 3D digital spring micrometers use imaging sensors to measure peak height (H_L) and fourteen common 2D/3D profile parameters such as Ra, Rz, Sq, Spd and more.

- Advanced models generate high resolution Surface Data Files (SDF) and 2D/3D thumbnails for detailed analysis of surface profiles



Air Needle Scaler

Shot Blasted



WALL THICKNESS

PosiTector® *UTG*

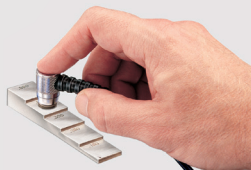
Ultrasonic Thickness Gages measure the wall thickness of materials such as steel, plastic and more. Choose from corrosion, multiple-echo, low frequency, and precision probes.

Corrosion—PosiTector *UTG C*, PosiTector *UTG CA*, PosiTector *UTG CX*—Ideal for measuring the effects of corrosion or erosion on tanks, pipes or any structure where access is limited to one side.

Multiple-Echo—PosiTector *UTG M*—Features Thru-Paint capability to quickly and accurately measure the metal thickness of a painted structure without having to remove the coating.

Low Frequency—PosiTector *UTG CLF*—Designed for measuring attenuative materials such as cast iron.

Precision—PosiTector *UTG P*—Designed for high resolution measurements and thin materials.



HARDNESS

PosiTector® *SHD*

Shore Hardness Durometers measure the hardness of non-metallic materials. Two models available—Type A and Type D. Features include:

- User adjustable measurement time with onscreen countdown to conform to international standards
- Onscreen statistics and an electronic "maximum" reading indicator
- Conforms to ASTM D2240, ISO 868/7267/7619 and DIN 53505



PosiTector® *BHI*

Barcol Hardness Impressors measure the hardness of soft metals such as aluminum, aluminum alloys, copper, brass, and other materials such as harder plastics, and fiber-reinforced plastic. Comparable to 934-1 Barcol Hardness Testers, the electronic impressor offers a number of advantages over conventional analog instruments.



INSPECTION KITS

PosiTector® *Inspection Kits*

Kits contain a PosiTector gage body (*Standard* or *Advanced*) with 3 probes—coating thickness, environmental and surface profile—and accessories in a convenient hard shell carrying case.

- Select from 12 pre-configured kits or build your own custom kit



Award Winning Compatibility

PosiTector bodies accept all PosiTector probes

- Coating Thickness
- Surface Profile
- Environmental Conditions
- Salt Contamination
- Hardness
- Ultrasonic Wall Thickness



SALT CONTAMINATION

PosiTector® *SST*

Soluble Salt Testers measure the concentration of soluble salts (salt contamination) on metal surfaces in accordance with ISO 8502-6, 8502-9.

Features include:

- An intuitive step-by-step interface that guides users through the Bresle method and automatic computation of surface density of salt
- Displays test duration, sample temperature, conductivity ($\mu\text{S}/\text{cm}$) and surface density (mg/m^2 or $\mu\text{g}/\text{cm}^2$)



Innovative PosiPatch™

A non-adhesive, flexible and reusable patch that adheres to steel surfaces using a magnetic ring.

- No adhesive residue
- No sharps, no needles!



Available with Standard or Flexible magnetic rings

ADHESION TESTING

PosiTest **AT**

Adhesion Testers measure the pull-off adhesion of coatings to metal, wood, concrete and other rigid substrates. Featuring a revolutionary self-alignment feature and pull rate indicator. Available in Automatic (**PosiTest AT-A**) or Manual (**PosiTest AT-M**) models.

- Automatic models feature an impact resistant, color touch screen and the ability to record the results as Pass/Fail and the nature of fracture—cohesion, adhesion, and glue failures
- Select from four stand-offs: 20 mm kit for higher bond strength coatings on metals; 50 mm kit for lower bond strength coatings on concrete, wood and plastics; 50 x 50 mm tile kit for measuring the tensile strength of ceramic tile cementitious adhesives; and 50 mm C1583 kit for measuring the tensile strength of concrete repairs and overlays



PosiTest **AT-A**



PosiTest **AT-M**



PINHOLE/HOLIDAY DETECTION

PosiTest **LPD**

Low voltage Pinhole Detectors use a wet sponge to detect holidays, pinholes and other discontinuities on metal and concrete substrates.

- 4 regulated voltage output options for coatings up to 500 μm (20 mils)
- Choose from Basic or Complete kits. Complete kits feature adaptable sponge hardware including rectangle (flat), roller, ID, and custom sponges



PosiTest **HHD**

High voltage Holiday Detectors use pulse DC technology to detect holidays, pinholes and other discontinuities on metal and concrete substrates. Features include:

- User-adjustable voltage range from 0.5 to 35 kV for coatings up to 20 mm (780 mils) thick
- Built-in certified volt meter
- Voltage calculator for conforming to 11 international standards
- Conforms to national and international standards including ISO, ASTM, and NACE



Select from a wide range of quality electrodes including rolling springs and flat wire brushes—custom sizes are available upon request.

Optional hand-held wand accessory



PosiTest HHD Verifier standalone voltmeter (crest meter, jeep meter) for verifying the accuracy and operation of pulse type and DC holiday detectors



POSISOFT SOLUTIONS

PosiSoft®—4 Free ways to view and report your data

PosiSoft Desktop—PC/Mac

Powerful desktop software for downloading, viewing, printing, and archiving measurement data with no internet connection required. Import measurement data via USB, and categorize batches into Jobs for creation of multi-batch reports. Import PDF forms and overlay Custom Fields for automatic population of measurement data.

PosiSoft.net—Web Based

The intuitive and familiar user interface of PosiSoft Desktop brought to your web browser. Data is securely stored in the cloud and can be accessed from any web-enabled device. Synchronize data from your gage without the need for a computer when connected via WiFi (*Advanced models only*).

PosiTector App—Mobile

An easy-to-use mobile app (iOS/Android) that connects to your **PosiTector Advanced**, **PosiTector SmartLink**, **PosiTest AT-A**, **PosiTector DPM L** and **PosiTector CMM IS**. Capture, view, and report measurement data all from one device.

PosiSoft USB Drive—Gage Based

A simple gage interface to retrieve data in a manner similar to USB flash drives, cameras, or digital audio players. No software to install or internet connection required.

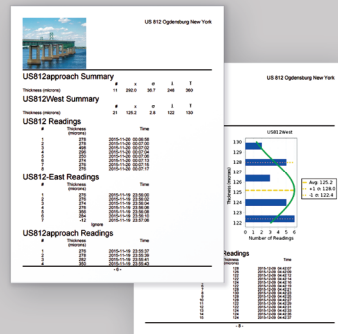


PosiSoft Custom PDF Report Generator

Easily create reports from your measurement data in seconds. Featured on:

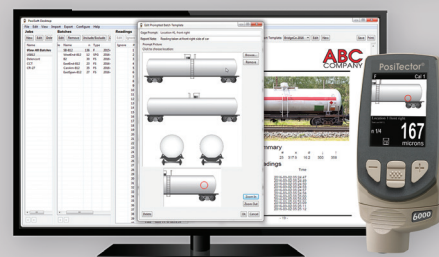
PosiSoft Desktop ■ PosiSoft.net ■ PosiTector App

- Include inspection information such as on-site pictures, screen captures, notes, and more to communicate important details
- Create and save multiple custom layouts as templates—insert cover pages, add logos/images, and select font and point size
- Save readings as comma separated value (.CSV) files which can easily be imported into Excel and other applications



Prompted Batch Mode

Create pre-defined batches in PosiSoft Desktop with onscreen text and image prompts for each reading, then upload to **PosiTector 6000** gages.



POSITECTOR SMARTLINK

PosiTector® SmartLink™

Wirelessly connects PosiTector probes to your Apple iOS or Android smart devices using the free mobile app. Turn your cell phone or tablet into a virtual PosiTector gage.

- Accepts **PosiTector 6000**, **RTR-H**, **SPG**, and **DPM** probes
- Take full advantage of the simplicity and utility of your **Android** or **Apple** smart device including touch screen, keyboard, camera, email, WiFi, Bluetooth, cellular, dictation tools, and more.



VERIFICATION STANDARDS

Verification Standards are used to verify the accuracy and operation of inspection instruments and are an important component in fulfilling both ISO/QS-9000 and in-house quality control requirements.

Choose from a variety of standards:

- Coating Thickness
- Ultrasonic Wall Thickness
- Surface Profile
- Hardness
- Pinhole/Porosity
- Pull-Off Adhesion



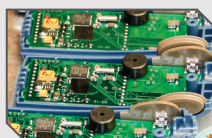
THE DEFELSKO ADVANTAGE

The Measure of Quality... DeFelsko, a leading U.S. manufacturer of inspection instruments, has been designing *Simple, Durable, Accurate*, instruments since 1965. Our state-of-the-art facility in Ogdensburg, NY houses research, manufacturing, sales, and service departments. DeFelsko is committed to excellence in manufacturing and support. Every instrument is inspected under our strict quality guidelines.



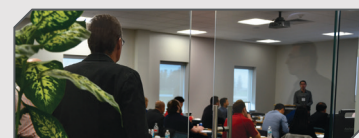
Technical Experience... With an average of over ten years experience, our highly trained technical sales staff is dedicated to answering your questions in a timely manner. Rely on our experience to solve your most challenging applications.

Fast Service... On-site manufacturing allows us to service instruments quickly and ship most instruments within a day to anywhere in the world. Our service department's goal is to evaluate your instrument and contact you within one day of receiving the instrument for service or calibration.



Innovation... Our founder, Frank Koch's goal in 1965 was to create the best and most innovative products at the best possible price. Our goal remains the same today. Our award winning PosiTector series features complete probe interchangeability.

Industry Involvement... DeFelsko actively participates in key organizations to improve and promote the science of coating inspection such as SSPC, NACE, ASTM, ISO, PCI, etc...



DeFelsko Corporation ■ 800 Proctor Avenue ■ Ogdensburg, New York 13669 USA
1-800-448-3835 (USA & Canada) ■ +1-315-393-4450 ■ www.defelsko.com

© 2020 DeFelsko Corporation. All Rights Reserved. Technical Data subject to change without notice. ■ Printed in USA ■ PFAM.v.LWW2001