

Coating Thickness and Inspection Instruments

DeFelsko®
The Measure of Quality



HOLIDAY/PINHOLE DETECTION

COATING THICKNESS



ADHESION



SALT CONTAMINATION

ENVIRONMENTAL CONDITIONS



HARDNESS

ULTRASONIC WALL THICKNESS



SURFACE PROFILE

OVEN PROFILE



CONCRETE MOISTURE

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 **Xtreme Series** for measuring on hot or rough surfaces.

All Gages Feature:

- Fast measurement speed—60+ readings per minute. Enhanced FAST mode—90+ readings per minute for quick inspection.
- NEW** Larger 2.8" impact resistant color touchscreen with redesigned keypad for quick menu navigation
- NEW** Weatherproof, dustproof, and water-resistant—IP65-rated enclosure
- Ready to measure—no adjustment required for most applications
- Continually displays/updates average, standard deviation, min/max, and number of readings while measuring
- Conforms to national and international standards including ISO and ASTM
- Includes PosiSoft suite of software for viewing and reporting data



Select Standard or Advanced:



Standard models feature

- NEW** Storage of 1,000 readings per probe—stored readings can be viewed or downloaded

Advanced models feature

- NEW** Storage of 250,000 readings from multiple probes in up to 1,000 batches and sub-batches
- 3 Scan Modes—increase measurement speed to 180+ readings per minute
- NEW** Touchscreen keyboard for quickly renaming batches, adding notes, and more
- NEW** SSPC-PA 2, ISO 19840, and IMO PSPC 90/10 modes determine if film thickness conforms to min/max specs
- Bluetooth and WiFi data transfer options

Variety of Measurement Ranges and Probe Styles:

- Interchangeable 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® 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.

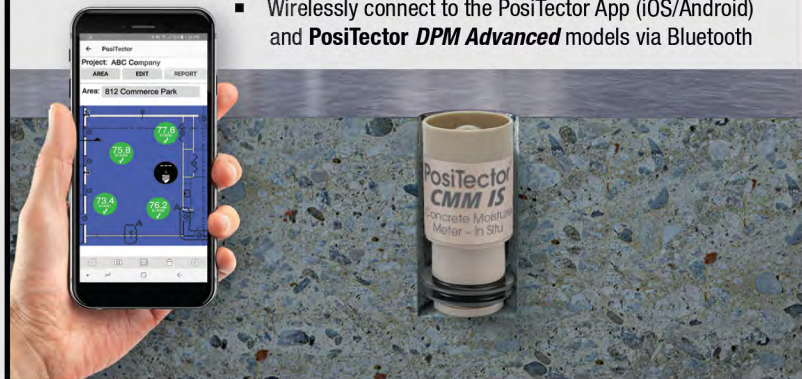
- Selectable emissivity levels
- Button-activated laser pointer for accurate targeting



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
- 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.

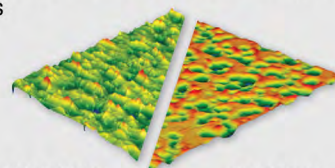
- Improved peak-to-valley height accuracy over conventional (spring) micrometers
- Linearization feature increases measurement accuracy and reduces tape consumption



PosiTector® RTR3D

3D digital spring micrometers use imaging sensors to measure peak height (H_L) and fourteen common 2D/3D profile parameters such as R_a, R_z, S_a, S_{pd}, 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.



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



HARDNESS

PosiTector[®] *SHD*

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

- User adjustable measurement time with on-screen countdown to conform to international standards
- Auto Ignore mode disregards hardness readings below 20 and above 90
- 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, this electronic impressor offers a number of advantages over conventional analog instruments.



SALT CONTAMINATION

PosiTector[®] *SST*

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

Features include:

- An intuitive step-by-step interface that guides users through the Bresle method with 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
- Manual models feature a high-contrast, easy-to-read color display, and field replaceable AAA alkaline batteries
- Select from four kits: 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.



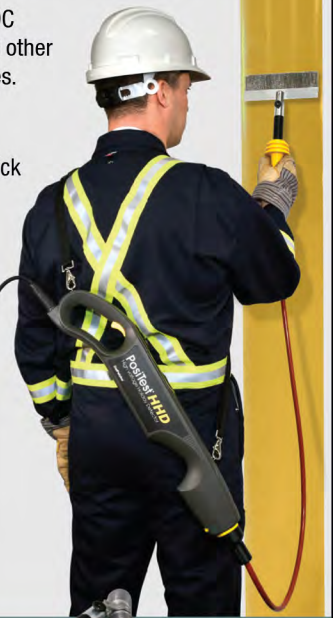
PosiTest[®] HHD

Optional hand-held wand accessory

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.



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

OVEN PROFILE

PosiTest[®] OTL

Oven Temperature Loggers simultaneously measure up to 6 different temperatures with a variety of air and surface temperature probes (sold separately). Featuring a high temperature stainless steel barrier box, the **PosiTest OTL** is ideal for measuring and recording oven temperature profiles during curing.

- 6 K-type thermocouple ports (channels)
- High temperature stainless steel barrier box for long run times
- Download, view, and analyze data using PosiSoft Desktop Software or export to .CSV
- Wide variety of spring clamp and magnetic temperature probes available



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
- Pinhole/Porosity
- Pull-Off Adhesion



POSI-SOFT 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.

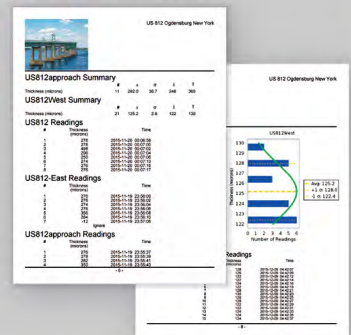


PosiSoft Custom PDF Report Generator

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 on-screen text and image prompts for each reading, then upload to **PosiTector 6000** gages.

