Coating Thickness and Inspection Instruments
Fall 2018 Catalog

DeFelsko®
The Measure of Quality

PosiTector® *SmartLink*

Wirelessly connect PosiTector probes to your smart device

PosiTector®
6000

Your Company Logo

Bridge 117a Summary

#	x̄	σ	↧	↥
		(Mils)		
16	11.61	1.32	10.1	14.6

e 117a Readings

Reading (Mils)		Time
12.9	2015-08-06	10:13:30
14.5		10:13:33
14.6		10:13:35
10.1		10:14:27

- 1 -

mpany Logo   **Inspection Report**

ading (Mils)	Time
14.6	10:14:31
14.6	10:14:34
14.6	10:14:37

2:38 PM

Search   **PosiTector**   Menu

6000   F 210043

↻ Bridge 117a   n16

11.61 x̄   1.32 σ

10.1 ↧   14.6 ↥

F   Cal 3

12.9

thou/mils

A Smart New Way to Measure:
PosiTector SmartLink and free mobile app turns your cell phone or tablet into a virtual PosiTector gage

Made for
iPod iPhone iPad

Made for
Android™

DeFelsko®
The Measure of Quality

PosiTector® *SmartLink*

Wirelessly connect PosiTector probes to your smart device.

A Smart New Way to Measure

PosiTector SmartLink and free mobile app turns your cell phone or tablet into a virtual PosiTector gage

- Intuitive easy-to-use touch screen operation
- Every reading is instantly transmitted to your smart device
- Tri-color LED provides immediate feedback in dark and noisy environments
- Accepts coating thickness, environmental and surface profile probes
- Lightweight and compact design—uses one AAA battery

Unprecedented Mobile Integration
(No internet connection required)

Take full advantage of the simplicity and utility of your smart device including touch screen, keyboard, microphone, camera, email, WiFi, Bluetooth, cellular, dictation tools and more

- Auto-pairing *Bluetooth Low Energy* connection works up to 10m away (30 feet)
- Create and save professional PDF reports quickly and easily
- Add images to individual readings or batches using the camera or area within an image*
- Annotate images using drawing tools— ideal for identifying a specific location or area within an image
- Rename batches and add notes using the keyboard or microphone
- Real time graphing and statistical analysis with the swipe of a finger

Seamless Online Integration with an Internet Connection
Share, backup, synchronize and report measurement data via email, apps and the cloud

- AutoSync mode instantly backs up every reading to the cloud*—No account required!
- Restore data from the cloud to any smart device— add readings, notes and images
- Live synchronization with your PosiSoft.net account*
- Share professional PDF reports and CSV data instantly via email, Dropbox, AirPrint™ or other applications on your device

 *iOS only

PosiTector SmartLink instantly transmits every reading to your smart device.

Share professional PDF reports and CSV data

instantly via email, Dropbox, AirPrint™ or other applications on your device.

Quick Connect

PosiTector SmartLink accepts PosiTector 6000, SPG, RTR-H, and DPM probes easily converting to a coating thickness gage, surface profile gage or dew point meter.

| Coating Thickness | Surface Profile | Surface Profile | Environmental Conditions |

SmartLink Comes Complete *with free PosiTector App, AAA battery, protective rubber holster, belt clip, wrist strap, instructions, two (2) year warranty. Probes purchased separately.*

DeFelsko®
The Measure of Quality

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techsale@defelsko.com ▪ www.defelsko.com

Made in U.S.A.

PosiTector® *6000* Series

Coating Thickness Gages for *ALL* Metal Substrates

PosiTector®

F   Cal 1

5.4
5.3
5.2
5.1
5.0
4.9
 1 11 21 31 41 51
IBeam4   n30

5.06
thou/mils
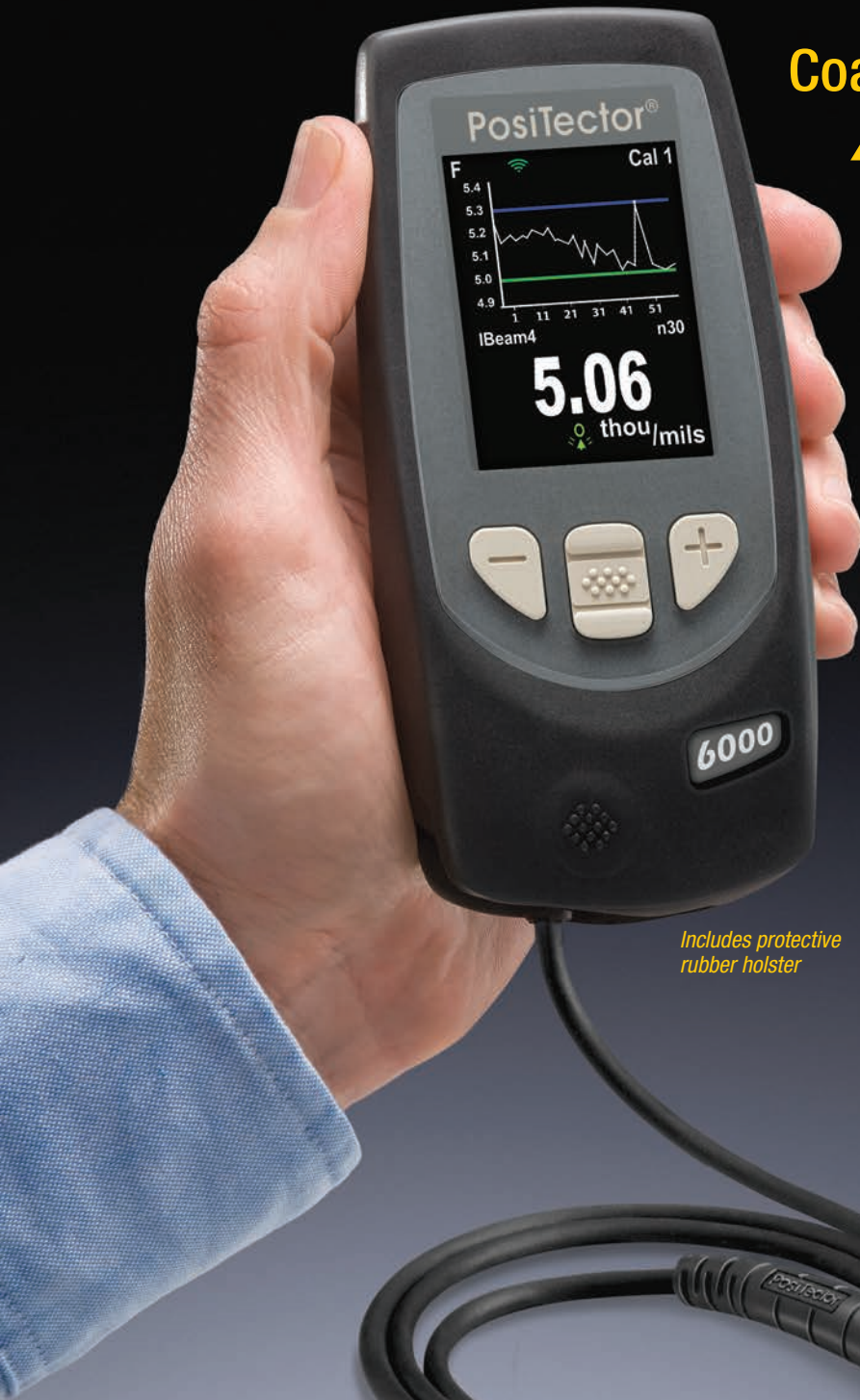
6000

Includes protective rubber holster

PosiTector®

F   Cal 1

78

microns

6000

NEW!
Scan Modes

Advanced models now include
3 Powerful Scan Modes

DeFelsko®
The Measure of Quality

Available on the **App Store**

WiFi

PosiTector®
SmartLink
Compatible

Bluetooth®

PosiTector® *6000* Series

All Gages Feature...

Simple
- *NEW* Faster measurement speed—60+ readings per minute
- Ready to measure—no 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 or PTB 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 accepts all PosiTector 6000, 200, RTR, SPG, DPM, SST, SHD and UTG probes easily converting from a coating thickness gage to a surface profile gage, dew point meter, soluble salt tester, Shore hardness durometer or ultrasonic wall thickness gage
- Multiple calibration adjustment options including 1 point, 2 point, known thickness, average zero
- Selectable display languages
- High contrast LCD with backlit display
- 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
- Screen Capture—save screen images for record keeping and review
- HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
- *NEW* Enhanced FAST mode— 90+ readings per minute for quick inspection
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—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
- Includes PosiSoft suite of software for viewing and reporting data *(see right panel)*

Probes available for a variety of applications

For measuring paint, powder, etc. on all metals...

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

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

Advanced Models
Includes ALL features as shown on left plus...
- Storage of 100,000 readings from multiple probes in up to 1,000 batches and sub-batches
- Live graphing of measurement data
- 3 Scan Modes — increase measurement speed to 180+ readings per minute
  - *Normal* – take continuous readings without lifting the probe
  - *NEW Statistics* – take continuous readings and record average, standard deviation, min/max thickness and number of readings while scanning
  - *NEW Limited Count Average* – take continuous readings up to a user-specified count. The gage displays and records the average of the readings.
- Multiple stored calibration adjustments for measuring on a variety of substrate conditions
- SSPC-PA 2 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
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- Bluetooth® **4.0 Technology** for data transfer to a mobile device running the PosiTector App or optional portable printer. **BLE API** available for integration into third-party software.
- Onscreen Batch Annotation—add notes, change batch names and more with built-in QWERTY keyboard

PosiTector SmartLink™
- Wirelessly connect PosiTector 6000 probes to your smart device

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

Cabled Probe Style

Removable Probes can be detached and replaced with any one of our wide variety of probes

Integral Probe Style

Thick

90°   0°   45°   Regular

Rugged Features...

Sealed USB Port for communicating with a PC or Mac

Water and dust resistant

WEATHERPROOF

High contrast color LCD with backlit display

Scratch/solvent/impact resistant lens

Multi-function navigation button

Solvent, acid, oil resistant, high 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

PosiTector®

F · Cal 1
26.0
25.5
25.0
24.5
24.0
23.5
23.0
22.5
22.0
21.5
1 6 11 16 21 26 31
Truss5   n31
22.7
microns

6000

All Regular Cabled Probes are suitable for underwater use

PosiSoft® ...*FREE SOLUTIONS for viewing, analyzing and reporting data:*

PosiSoft Desktop
Powerful desktop software for downloading, viewing, printing and storing measurement data. Includes customizable, templated PDF Report Generator. No internet connection required.

PosiSoft.net
A web-based application offering secure centralized management of readings. Includes customizable, templated PDF Report Generator. Access your data from any web-connected device.

PosiTector App
Mobile app connects PosiTector Advanced instruments, the PosiTector SmartLink and the PosiTest AT-A to your *iOS* or *Android* smart device.

PosiSoft USB Drive
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.

Award Winning Compatibility!

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

SST · DPM · RTR · SHD · 200 · UTG · 6000

DeFelsko®
The Measure of Quality
PosiTector 6000
Coating Thickness Gage

FNDS Probe *measures individual layer thicknesses of zinc and paint in a duplex coating system*
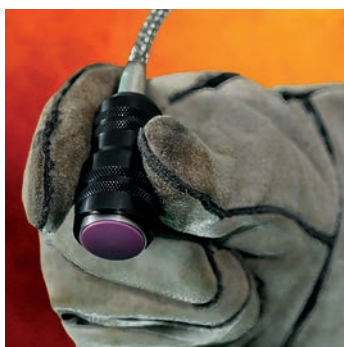
FHXS Probe *with Alumina wear face and braided cable for hot or rough surfaces*

Flip Display *enables right-side-up viewing*

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

PosiTector® 6000 Series — ORDERING GUIDE

		Our most popular Integral and Cabled probe models			90° Regular probe for tight spots	Ideal for duplex coating systems	Ideal for anodized aluminum	Microprobes – Our smallest probes for small parts or hard-to-reach areas				NEW	Integral and Cabled probes for thick protective coatings; epoxy, rubber, intumescent fireproofing and more						
FERROUS PROBES	Standard	F1	FS1	FXS1*	FRS1				F0S1	F45S1	F90S1	F90ES1	FT1	FTS1	FTRS1	FHXS1**	FKS1	FLS1	
	Advanced	F3	FS3	FXS3*	FRS3				F0S3	F45S3	F90S3	F90ES3	FT3	FTS3	FTRS3	FHXS3**	FKS3	FLS3	
NON-FERROUS PROBES	Standard	N1	NS1		NRS1		NAS1	N0S1	N45S1	N90S1							NKS1		
	Advanced	N3	NS3		NRS3		NAS3	N0S3	N45S3	N90S3							NKS3		
COMBINATION PROBES	Standard	FN1	FNS1		FNRS1	FNDS1^							FNTS1					FNGS1†	
	Advanced	FN3	FNS3		FNRS3	FNDS3^							FNTS3					FNGS3†	
Range		0–60 mils 0–1500 µm				Ferrous: 0–45 mils and 0–1150 µm Non-Ferrous: 0–25 mils and 0–625 µm				0–250 mils 0–6 mm			0–400 mils 0–10,000 µm		0–500 mils 0–13 mm		0–1.5 in. 0–38 mm	0–2.5 in. 0–63.5 mm	
Accuracy‡		±(0.05 mil + 1%) 0-2 mils ±(0.1 mil + 1%) >2 mils ±(1 µm + 1%) 0-50 µm ±(2 µm + 1%) >50 µm				±(0.02 mil + 1%) 0-4 mils ±(0.1 mil + 3%) >4 mils ±(0.5 µm + 1%) 0-100 µm ±(2 µm + 3%) >100 µm				±(0.5 mil + 1%) 0-100 mils ±(0.5 mil + 3%) >100 mils ±(0.01 mm + 1%) 0-2.5 mm ±(0.01 mm + 3%) >2.5 mm			±(0.1 mil + 3%) ±(2 µm + 3%)		±(1 mil + 3%) ±(0.02 mm + 3%)		±(0.01 in. + 3%) ±(0.2 mm + 3%)		
Matching DeFelsko Calibration Standards		STDS1 STDA1				STDS2 STDA2				STDP1			STDP7		STDP5		STDP8	STDP8 (included)	

Ferrous probes measure non-magnetic coatings on ferrous metals. **Non-Ferrous probes** measure non-conductive coatings on non-ferrous metals. ***FXS Xtreme probe** with Alumina wear face. Ideal for rough surfaces. ****FHXS Xtreme probe** with Alumina wear face and braided cable measures non-conductive coatings on steel. Ideal for rough or hot surfaces up to 250˚ C (500˚ F). **^FNDS probes** for full accuracy information see website. †**FNGS probe** measures non-conductive coatings on all metals. ‡ Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.

Probe Details (All probe details can be found online at www.defelsko.com/p6000/probes)

REMOVABLE INTEGRAL — 21mm / 0.8" — Side View

REGULAR, FNDS & FTS — 30mm / 1.2" — Ø16mm / 0.6"

FRS & FTRS — 50mm / 2" — 28mm / 1.1" — Ø16mm / 0.6"

F0S & N0S WITH ADAPTER — Ø10mm 0.4" — 64mm / 2.5" — 25mm / 1" — Ø5mm / 0.2" — Quick Release Adapter for 0° Probe — Ø14mm / 0.6" — 56mm / 2.2" — 10mm / 0.4" — Ø10mm / 0.4"

F45S & N45S — Ø10mm 0.4" — 58mm / 2.3" — 18mm 0.7" — 12mm 0.5" — Ø5mm 0.2" — 12mm 0.5"

F90S, F90ES & N90S — Ø10mm 0.4" — 58mm / 2.3" (F90S, N90S) — 350mm / 13.75" (F90ES, not to scale) — 16mm 0.6" — Ø5mm / 0.2" — 12mm / 0.48" — 15mm 0.6"

ALL GAGES COME COMPLETE with precision plastic shim(s), protective rubber holster with belt clip, wrist strap, 3 AAA alkaline batteries, instructions, protective lens shield, convenient carrying case, Long Form Certificate of Calibration traceable to NIST or PTB, USB cable, PosiSoft Software, 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 2178/2360/2808, ISO 19840, ASTM B244/B499/D1186/ D1400/D7091/E376/G12, BS3900-C5, SSPC-PA2 and others

Options

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

Probe Foot Rings Durable Delrin ring allows the probe to slide easily while scanning

Telescopic Probe Extender for use with the PosiTector 6000 FS, NS, FNS, FXS, FNDS, NAS and FTS probes.
- Provides up to 124 cm (49") of reach and collapses to 47 cm (18.5") for easy storage

For a complete list of product features and available options visit www.defelsko.com

DeFelsko® Inspection Instruments

DeFelsko Corporation • 800 Proctor Ave. • Ogdensburg, New York 13669-2205 USA
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techsale@defelsko.com • www.defelsko.com

Made in U.S.A.

PosiTest® *DFT*
Coating Thickness Gage

Measures coating thickness on metals

Two models. . .
Ferrous for STEEL
Combo for ALL METALS

Ideal for . . .

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

PosiTest® *DFT*

3.1

F F mils

simply
measures

DeFelsko®
The Measure of Quality

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.

Bright, high contrast color display with large numerals for superior readability.

Actual Size

Features
- Fast, repeatable measurements — 60+ readings per minute
- Ready to measure—no adjustment required for most applications
- Zero or 1 Point Calibration Adjustment for complex applications
- Onscreen averaging for up to 99 readings
- Strong, wear-resistant, ruby-tipped probe
- V-groove in probe for positioning on cylindrical parts
- High contrast color display
- Adjustable display brightness for optimal visibility in any environment
- Auto rotating display with lock to prevent unintended rotations
- Simple, icon based menu
- Handy RESET feature when no zero reference is available
- Mils/microns switchable
- Built-in wrist strap for added convenience and safety
- Two year warranty

Measurement Range	0 – 40 mils	0 – 1000 μm
Accuracy	$\pm$(0.1 mils + 3%)	$\pm$(2 μm + 3%)

Auto rotating display with rotation lock

ALL GAGES COME COMPLETE with wrist strap, precision plastic shims, hard shell storage case, 2 AAA alkaline batteries, instructions, Long Form Certificate of Calibration traceable to PTB, two year warranty.

SIZE: 108 x 43 x 20 mm (4.25" x 1.7" x 0.8")
WEIGHT: 54 g (1.9 oz.) without batteries

Conforms to ISO 2178/2360/2808, ISO 19840, ASTM B244/B499/D7091/E376, BS3900-C5, SSPC-PA2 and others

Options
Pouch with belt clip protects your PosiTest DFT while keeping it within easy reach

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

DeFelsko®
Inspection Instruments

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techsale@defelsko.com • www.defelsko.com

Made in U.S.A.

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.

DeFelsko®

The Measure of Quality

PosiTest® *Accurate & Dependable*

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

ACCURATE
- Long Form Certificate of Calibration showing traceability to PTB 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*

mils

FM
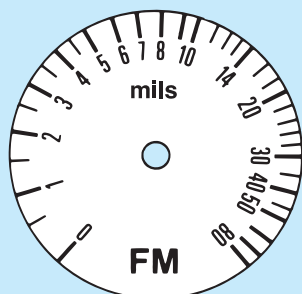
Scale FM Tolerance:	0–80 mils ±0.2 mils up to 4 mils ±5% of the reading over 4 mils
Scale F Tolerance:	0–2000 microns ±5 microns up to 100 microns ±5% of the reading over 100 microns

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

mils

GM
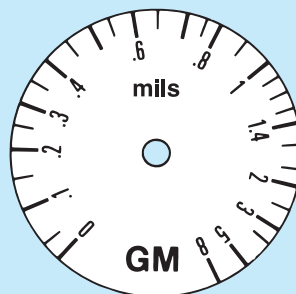
Scale GM Tolerance:	0–8 mils ±0.04 mils up to 0.8 mils ±5% of the reading over 0.8 mils
Scale G Tolerance:	0–200 microns ±1 micron up to 20 microns ±5% of the reading over 20 microns

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PosiPen®

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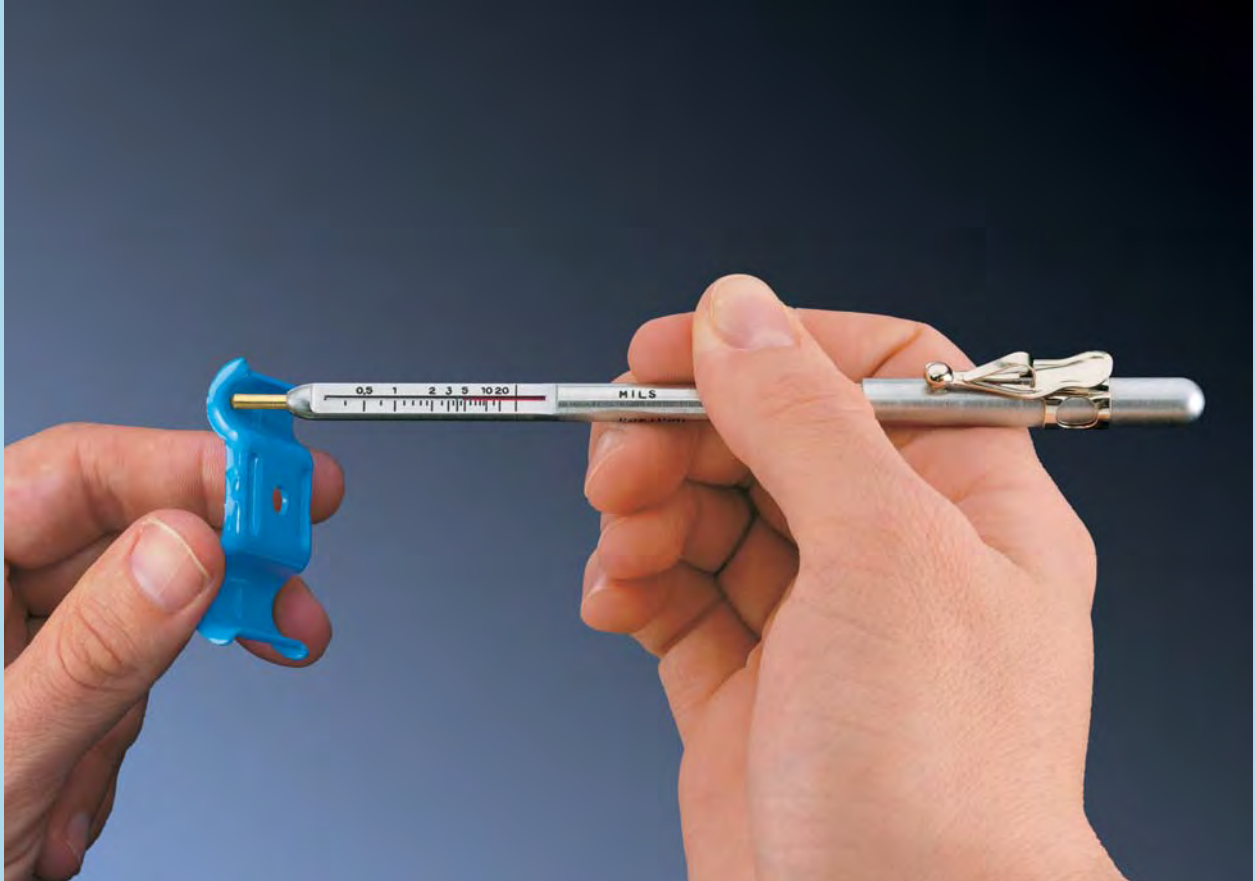
Measures non-magnetic coatings such as paint, enamel, plating, hot-dip galvanizing on steel.

Ideal for measuring on small, hot or hard-to-reach surfaces.

DeFelsko®
The Measure of Quality

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
- Long Form Certificate of Calibration traceable to PTB included
- Highly wear resistant probe tip for long life and continuous accuracy

	English	**Metric**
Range	0.25 to 20 mils	5 to 500 microns
Tolerance	+/-10% and 0.1 mil	+/-10% and 2.5 microns
Temperature	-150° F to + 450° F	-100° C to + 230° C

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 PTB, two (2) year warranty.

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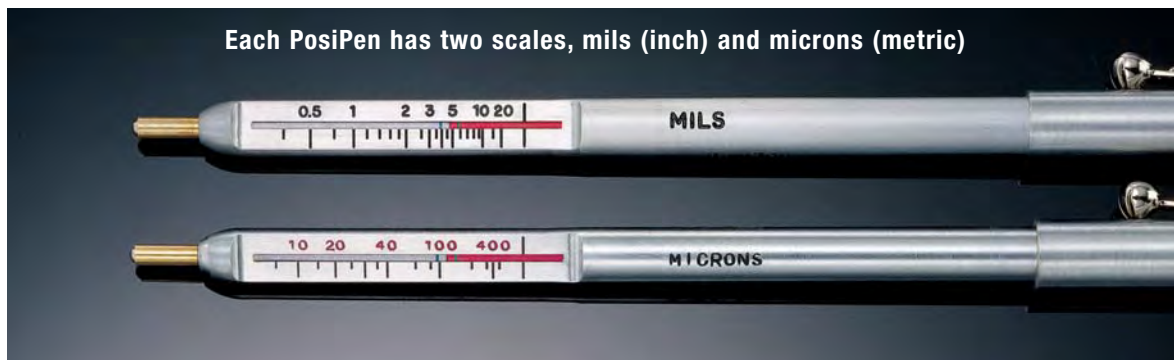
Each PosiPen has two scales, mils (inch) and microns (metric)

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 Concrete, Wood, Plastic and more...
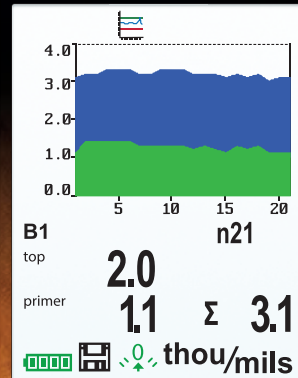
Advanced models measure up to 3 layers with graphics

DeFelsko®
The Measure of Quality

PosiTector® *200* Series

All Gages Feature...

Simple
- Ready to measure—no adjustment required for most applications
- RESET feature instantly restores factory settings

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

Accurate
- Responsive transducers provide fast, accurate readings
- Certificate of Calibration showing traceability to NIST or PTB included
- Proven non-destructive technique conforms to ASTM D6132 and ISO 2808

Versatile
- PosiTector body accepts all PosiTector probes easily converting from a coating thickness gage to a surface profile gage, dew point meter, Shore hardness durometer, soluble salt tester or wall thickness gage
- High contrast reversible color LCD with backlit display
- Flip Display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Continually displays average, standard deviation, min/max thickness and number of readings while measuring
- USB port for connection to a Mac/PC and to supply continuous power
- Every stored measurement is date and time stamped
- PosiSoft USB Drive—stored readings, graphs and screen captures can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Includes PosiSoft suite of software for viewing and reporting data

Body accepts all PosiTector Probes

Surface Profile

Environmental

Shore Hardness

Coating Thickness

Ultrasonic Wall Thickness

Soluble Salts

Select Standard or Advanced Features

Standard Models
Includes ALL features as shown on left plus...
- Measure the total thickness of a coating system
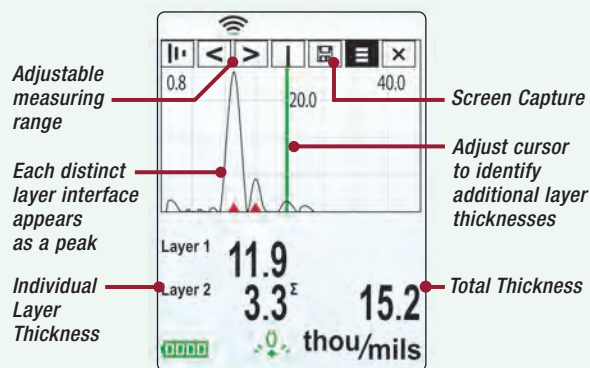- Storage of 250 readings—stored readings can be viewed or downloaded

Advanced Models
Includes ALL features as shown on left plus...
- Measure the 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.
- Storage of 100,000 readings in up to 1,000 batches
- Graphics mode with screen capture
- Live graphing of measurement data
- Batch annotation—add notes and change batch names with onscreen QWERTY keyboard
- WiFi technology wirelessly communicates with PosiSoft.net and downloads software updates
- Data transfer via USB to a PC or via ❋ **Bluetooth**® Wireless Technology to a mobile device, PC or printer

For a complete comparison of the Standard and Advanced features visit www.defelsko.com/p200

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

Adjustable measuring range

Each distinct layer interface appears as a peak

Individual Layer Thickness

Screen Capture

Adjust cursor to identify additional layer thicknesses

Total Thickness

Advanced Model *shown in Graphics mode*

Select from a variety of measurement ranges

Probes	200B	200C	200D
Typical Applications	Polymer coatings on wood, plastic, etc.	Coatings on concrete, fiberglass, etc.	Thick, soft coatings such as polyurea, asphalitic neoprene, very thick polymers, etc.
Measurement Range*	13 – 1000 μm 0.5 – 40 mils	50 – 3800 μm 2 – 150 mils	50 – 7600 μm 2 – 300 mils
Accuracy	+/– (2 μm + 3% of reading) +/– (0.1 mil + 3% of reading)		+/– (20 μm + 3% of reading) +/– (1 mil + 3% of reading)
Minimum Layer Thickness^	13 μm 0.5 mil	50 μm 2 mils	500 μm 20 mils

* Range limits apply to polymer coatings. D probe– polyurea range is 50–5000 μm (2–200 mils).
^For multiple-layer applications only. Dependent on material being tested.

All gages come complete with body and probe, ultrasonic gel, precision plastic shims, protective rubber holster with belt clip, wrist strap, 3 AAA batteries, instructions, nylon carrying case with shoulder strap, protective lens shield, Long Form Certificate of Calibration traceable to NIST or PTB, USB cable, PosiSoft Software, two (2) year warranty on body and probe.

Size: 135 x 61 x 28 mm (5.25" x 2.4" x 1.1")
Weight: 140 g (4.9 oz.) without batteries
Conforms to ASTM D6132 and ISO 2808

PosiTest® *PC*✓ *Powder Checker*

Non-contact Uncured Powder Thickness Gage

Affordably measures uncured powder coatings using non-contact ultrasonic technology to predict a cured thickness.

PosiTest®PC

62 µm

Fast measurement speed for moving lines and swinging parts

DeFelsko®
The Measure of Quality

PosiTest® PC✓
Powder Checker

Non-contact coating thickness gage measures uncured powder and predicts cured thickness.

Features...

Target Grid simultaneously displays distance to the part and alignment, making measurements easy

Simple

■ Dedicated stand-alone unit is ready to measure right out of the box
■ Up to 4x faster measurement speed† — ideal for moving lines and swinging parts
■ Easy-to-read digital display with a simple, icon based menu
■ Hand-held, battery operated
■ Ergonomic and lightweight
■ No calibration adjustment required for most powders
■ Target Grid simultaneously displays distance to the part and alignment, making measurements easy
■ RESET feature instantly restores factory settings

Durable

■ Solvent, acid, oil, water and dust resistant — ideal for harsh powder coating environments
■ Hard-shell carrying case included
■ Replaceable screen protects the sensor
■ Two year warranty

Accurate

■ Conforms to ASTM D7378
■ Improved sensor technology allows easier measurement on small tubes, odd shapes and moving parts
■ Easy 1 and 2 point calibration adjustment options with *Cal Reset* to improve accuracy on unusual powders or substrates

Versatile

■ No cable to risk disturbing applied powder
■ Mils/microns switchable
■ High contrast color display
■ Adjustable display brightness for optimal visibility in any environment
■ Toggle sound On and Off
■ Uses alkaline or rechargeable batteries

Powerful

■ Storage of 999 readings with onscreen averaging. Stored readings can be downloaded to PosiSoft Desktop software
■ Scan Mode continuously takes measurements — ideal for analyzing large areas
■ USB Keyboard Mode emulates keystrokes to easily stream readings to a PC or PLC
■ USB port for fast, simple connection to a PC and to supply continuous power
■ Software updates keep your instrument current

† *Versus the previous generation PosiTector PC Powder Checker*

PosiTest PC Introductory Video
Measuring Uncured Powder Coating Thickness with the all-new PosiTest PC

Specifications	
Range*	20 – 100 µm (0.8–4.0 mils)
Resolution	1 µm (0.1 mil)
Accuracy	±5 µm (±0.2 mil)
Measurement Time	1–3 seconds
Measurement Distance to Powder	19 mm (0.75 inch)
Measurement Area	2 mm (0.08 inch)

* Based on TGIC-Free polyester powder.

GAGE COMES COMPLETE
with probe Zero Fixture, 4 AAA batteries, flat-head screwdriver, instructions, replacement probe screen, protective lens shield, USB cable, hard shell case, two (2) year warranty

Size: 241 x 64 x 51 mm (9.5" x 2.5" x 2.0")

Weight: 180 g (6.4 oz.) without batteries

Ordering Guide	
PosiTest PC	PC-B

Conforms to ASTM D7378

Powder Inspection Kits

Complete solutions for measuring powder coating before and after cure

Each kit contains:
■ PosiTest PC Uncured Powder Thickness Gage
■ Choice of dry film thickness gage
■ Two DeFelsko Powder Combs (models 1 and 4)
Select from 6 pre-configured kits or build your own at www.defelsko.com/PCKits

Made in U.S.A.

PosiTest® *AT* *Series*
Pull-Off Adhesion Testers

Measures the adhesion of coatings to metal, wood, concrete and other rigid substrates

*Models available for conforming to **ASTM C1583** (tensile strength of concrete overlays) and **BS EN 12004** (cementitious adhesives).*

IP65

Available in Automatic or Manual models

DeFelsko®
The Measure of Quality

Available on the **App Store**

WiFi

PosiTest® **AT** Series

Measures the force required to pull a specified test diameter of coatings or material away from its substrate using hydraulic pressure

All Models Feature...

Simple

- Portable — requires no external power source - ideal for field or lab 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 or plate size
- Inexpensive, single-use dollies and plates 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
- Hard-shell carrying case included, with optional upgrade to a heavy-duty Pelican® case
- Two year warranty

Accurate

- Calibrated and certified to $\pm$1% accuracy using a NIST traceable load cell. Certificate of Calibration showing traceability to NIST included.
- Self-aligning dolly enables accurate measurements on smooth or uneven surfaces
- High-grade, industrial pressure sensor ensures continued accuracy
- Conforms to national and international standards including ASTM C1583/ D4541/D7234, ISO 4624/16276-1, BS EN 12004-2, AS/NZS 1580.408.5 and others

Versatile

- *NEW* Select from four Stand-offs to meet your requirements
- Internal memory stores maximum pull-off pressure, rate of pull, test duration and dolly size
- 10 mm, 14 mm, 20 mm, 50 mm, 50 mm^2 Tile and 50 mm C1583 dollies maximize capability and measurement resolution across a wide range of bond strengths
- LCD displays pressure value in PSI, MPa and Newtons (*Automatic models only*)

Powerful

- Sealed USB port for fast, simple connection to a PC
- Includes PosiSoft suite of software for viewing and reporting data
- Software Updates via web keep your instrument current

For a complete list of product features and available options visit www.defelsko.com

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.

- Uniform pull-off force
- Stand-off
- Quick coupling
- Glue (uneven bond line)
- Coating
- Substrate
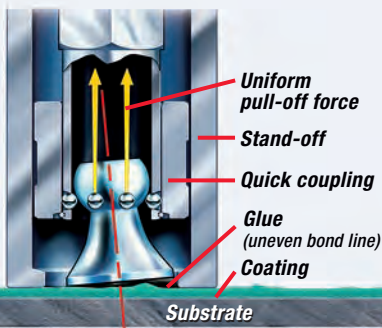
Select Manual or Automatic...

PosiTest **AT-M** | Manual

- 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
- Internal memory stores maximum pull-off pressure, rate of pull, test duration and dolly size for up to 200 pulls
- Compatible with PosiSoft desktop software for viewing, printing and storing measurement data

PosiTest **AT-A** | Automatic

- Electronically controlled hydraulic pump automatically applies smooth and continuous pull-off pressure. Greatly reduces user effort and the risk of influencing the pulling process.
- Impact and scratch resistant color touch screen with keypad for operation with or without gloves
- User adjustable pull rate, pull limit and hold time
- Rotating display for horizontal and vertical use
- Built-in rechargeable battery performs over 200 tests per charge. Continue testing with AC power while the battery recharges.
- Internal memory stores maximum pull-off pressure, rate of pull, test duration, dolly size, pass/fail, the nature of fracture and user notes for 100,000 pulls in up to 1,000 batches
- Compatible with PosiSoft desktop software, PosiSoft.net and PosiTector App
- PosiSoft USB Drive - stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- WiFi technology wirelessly communicates with PosiSoft.net and downloads software updates and allows access to stored measurement data using web browsers
- Rubberized, shock absorbing grips also provide a stable, skid-resistant footing

Impact and scratch resistant color touch screen with keypad for operation with or without gloves

*Wirelessly connect the PosiTest **AT-A** to your smart device using our free app*

- Add images and notes using camera and keyboard
- Create customized, professional PDF reports
- Share, backup, synchronize and report measurement data
- Auto-pairing Bluetooth (BLE) connection

Record the pass/fail result and the nature of fracture - cohesive, adhesive, and glue failures - using the app (left) or the instrument's touch screen display (above)

Select from four Stand-offs...

20 mm Kit

- Ideal for measuring higher bond strength coatings on metals
- Can be used with optional 10 and 14 mm dollies
- Includes 20 mm aluminum dollies (20), 20 mm cutting tool and 20 mm stand-off

50 mm Kit

- Ideal for measuring lower bond strength coatings on wood, concrete and plastic
- Includes 50 mm aluminum dollies (8[†]), 50 mm cutting tool and 50 mm stand-off

50 mm C1583 Kit

- **NEW** Ideal for measuring the tensile strength of concrete surfaces and concrete repairs and overlay materials
- Conforms to ASTM C1583
- Includes 50 mm C1583 steel dollies (4), 50 mm diamond grit cutting tool with arbor and 50 mm C1583 stand-off
  NOTE: *Drill required (not included)*

20 mm

10 mm

50 mm

50 mm² Tile Kit

- **NEW** Ideal for measuring the tensile strength of ceramic tile cementitious, dispersion and reaction resin adhesives
- Conforms to BS EN 12004-2
- Includes 50 mm x 50 mm steel dollies (4), and 50 mm x 50 mm stand-off

PosiTest AT 50T KIT converts the adhesion tester to measure the tensile strength of ceramic tile adhesives.

PosiTest AT-M with 50 mm C1583 Kit measures the tensile strength of concrete surfaces, concrete repairs and overlay materials

All Models Feature...

PosiTest AT-A Automatic with 20 mm Kit shown

Impact and scratch resistant display with keypad for operation with or without gloves

Color touch screen display (Automatic only)

Electronically or manually controlled hydraulic pump applies smooth and continuous pressure at a user-specified rate-of-pull

Reach difficult areas with 5 ft. (1.5 m) quality flex house

USB port for downloading

AC Adapter port charges batteries or powers instrument

Self-aligning, quick-coupling secures dollies to actuator

Environmentally sealed, one-piece metal enclosure

Cutting tool for isolating test area

Single-use, self-aligning dollies ensure even, consistent pull-offs

IP65

ORDERING GUIDE	20 mm Kit	50 mm Kit	NEW 50 mm² Tile Kit (BS EN 12004-2)	NEW 50 mm C1533 Kit (ASTM C1583)
Manual Models with protective case*	**ATM20** 0.7 – 20 MPa 100 – 3000 psi	**ATM50** 0.4 – 3.3 MPa 50 – 480 psi	**ATM50T** 0.4 – 2.585 MPa 50 – 375 psi	**ATM50C** 0.4 – 3.3 MPa 50 – 480 psi
Automatic Models with protective case*	**ATA20** 0.7 – 24 MPa 100 – 3500 psi 100 – 7550 N	**ATA50** 0.4 – 3.8 MPa 50 – 560 psi 100 – 7550 N	**ATA50T** 0.4 – 3.033 MPa 50 – 440 psi 100 – 7550 N	**ATA50C** 0.4 – 3.8 MPa 50 – 560 psi 100 – 7550 N
Conversion Kit only**	**AT20KIT**	**AT50KIT**	**AT50TKIT**	**AT50CKIT**
Typical Application	Higher bond strength coatings on metals	Lower bond strength coatings on wood, concrete and plastic	Cementitious adhesive for tiles	ASTM C1583 Concrete surfaces and overlays
Included Dollies	Ø20 mm (qty 20) Aluminum	Ø50 mm (qty 8†) Aluminum	50 mm² Plate (qty 4) with threaded post Steel	Ø50 mm (qty 4) with ≥ 25 mm thickness Steel
Cutting Tool	20 mm hole saw	50 mm hole saw	-----	50 mm diamond grit hole saw with arbor
Adhesive	ResinLab EP11HT 2-Part Epoxy	ResinLab EP11HT 2-Part Epoxy	ResinLab EP11HT 2-Part Epoxy	ResinLab EP11HT 2-Part Epoxy^
Resolution	0.01 MPa (1 psi)			
Accuracy	±1% Full Scale			

* Upgrade to the Pelican Case by adding a '-P' to the Ordering Code. ** Kits include everything needed to convert the adhesion tester to a different model. † 50 mm Conversion Kit includes Qty. 12 Ø50 mm dollies. ^ASTM C1583 specifies an ASTM C881 Type IV, Grade 3 epoxy. While the included ResinLab epoxy is suitable for many applications, it does not meet this specific requirement.

Options

Conversion Kits
Convert your adhesion tester to a different model with our choice of Conversion Kits. Choose from 20 mm, 50 mm, 50 mm² Tile and 50 mm C1583 kits. Kits include the appropriate stand-off, holesaw (if applicable) and test dollies.

PosiTest AT 50 mm C1583 KIT

Pelican Cases™
(CASEATM-P/CASEATMB-P)
Heavy-duty, waterproof cases complete with custom foam insert to securely hold your instrument.

Glue Kit (ATADHESIVEKIT)
Additional glue, mixing sticks, palettes and cotton swabs

PosiTest AT Verifier (ATVERIFY)
Ideal for checking the accuracy and operation of PosiTest Adhesion Testers and is an important component in fulfilling both ISO and in-house quality control requirements.

Dollies
Select from 10 mm, 14 mm, 20 mm, 50 mm, 50 mm concrete and 50 mm tile dollies available in assorted quantities. Multipacks offer larger quantities at a reduced cost.

Adhesion testers include everything needed for testing: Adhesion Tester, built-in rechargeable NiMH battery with charger, dollies, abrasive pad, cutting tool, glue with mixing sticks and palettes, cotton swabs, USB cable, PosiSoft Software, instruction booklet and video, shoulder strap (AT-A only), Certificate of Calibration traceable to NIST, two-year warranty, and sturdy, lightweight carrying case

Conforms to international standards including ASTM C1583/D4541/D7234/D7522, ISO 4624/16276-1, BS EN 12004-2, AS/NZS 1580.408.5 and others

PosiTest® **AT** Verifier
Adhesion Tester Accuracy Verification Kit

Ideal for checking the accuracy and operation of adhesion testers and is an important component in fulfilling both ISO and in-house quality control requirements.

Features include...

- High precision load cell and handheld smart sensor indicator
- Peak hold and real time reading display
- Bonded foil strain gages are hermetically sealed for protection against industrial environments
- Ready to use with all PosiTest Pull-Off Adhesion Testers
- Ideal for field or laboratory use
- Fitted with a permanent steel 20 mm loading fixture (dolly). A conversion factor is used to verify other sizes.
- Portable — requires no external power source
- Comes with a Sample Certificate of Accuracy and Measurement Uncertainty Worksheet
- Certificates of Calibration showing traceability to NIST are included for both the load cell and smart sensor indicator
- One year warranty
- Made in USA

Handheld smart sensor indicator and high precision load cell

The PosiTest AT Verifier and included documents allow the user to certify the accuracy of adhesion testers in-house.

Range	0 - 5,000 psi
Resolution	1 psi
Accuracy*	± 6.33 psi (± 0.044 MPa)

* Worst case measurement system uncertainty. See included Measurement Uncertainty Worksheet for actual uncertainty.

Note: Device displays Imperial units only.

Shown with PosiTest AT-A (not included)

EASY OPERATION
Connect the adhesion tester's pull-off actuator to the PosiTest *AT* Verifier's loading fixture. Apply pressure using the adhesion tester's normal operating procedure. Compare values from the adhesion tester and the Verification Device.

DEVICE COMES COMPLETE with load cell, smart sensor indicator, built-in rechargeable Lithium Ion batteries with universal AC adaptor, instructions, Sample Certificate of Accuracy, Measurement Uncertainty Worksheet, hard shell carrying case, two (2) Certificates of Calibration traceable to NIST, one (1) year warranty.

CASE SIZE: 31 x 23 x 10 cm (12.3" x 8.8" x 3.9")

SHIPPING WEIGHT: 3.44 kg (7.6 lbs.)

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.

PosiTector®

%RH	73.5	↓
Ta	26.5	
Ts	29.9	↑
Td	21.4	
Ts-Td	8.5	↑
	°C	

DPM

Select from 5 probe models

Available on the App Store

WiFi

PosiTector® SmartLink™ Compatible

D A T A S E T *

MEASURES	CALCULATES
RH – relative humidity	**Td** – dew point temperature
Ta – air temperature	**Ts–Td** – the difference between
Ts – surface temperature	surface and dew point temperatures
v – wind velocity	**Tw** – wet bulb

* Dependent on model

DeFelsko®
The Measure of Quality

PosiTector®*DPM* Dew Point Meter

All Gages Feature...

Simple
- All readings are constantly updated and displayed simultaneously
- No need to consult complex tables or use a slide rule calculator
- Alarms indicate when climate conditions are unsuitable for painting

Durable
- 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
- 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
- PosiTector body accepts all PosiTector DPM, 6000, 200, RTR, SPG, SST, SHD and UTG probes easily converting from a dew point meter to a coating thickness gage, surface profile gage, soluble salt tester, shore hardness durometer or ultrasonic wall thickness gage
- Auto Log mode records environmental parameters at user selected time intervals
- High contrast LCD with backlit display
- Flip Display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Every stored measurement is date and time stamped
- Screen Capture—save screen images for record keeping and review
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Includes PosiSoft suite of solutions for analyzing and reporting data

Standard Models
Includes ALL features as shown on left plus...
- Storage of 2,500 datasets
- Auto Log mode runs unattended on batteries for up to 50 hours or continuously via USB

Advanced Models
Includes ALL features as shown on left plus...
- Storage of 100,000 datasets in up to 1,000 batches
- **NEW** Enhanced Auto Log mode powers the gage off between readings for up to 8 months of battery life. Each reading can be uploaded to PosiSoft.net or an FTP server using WiFi. Automatically group readings into batches at daily, weekly, or monthly intervals
- User defined alarms for all parameters—visible and audible warnings **NEW** Receive email alerts when connected to WiFi
- Bluetooth® Technology for data transfer to a mobile device running the PosiTector App or optional portable printer
- Onscreen Batch Annotation—add notes, change batch names and more with built-in QWERTY keyboard
- Store thickness, profile, environmental and wall thickness measurements in individual batches
- Wet bulb temperature can be displayed and recorded
- Trend Charts graph readings in real-time

PosiTector SmartLink™ Compatible
- Wirelessly connect PosiTector DPM and DPMS probes to your smart device
- Turns your cell phone or tablet into a virtual PosiTector gage
- Includes Free mobile app

For a complete comparison visit www.defelsko.com/dpm

Remote Monitoring with Auto Log Mode

In addition to its capability as a handheld instrument, the PosiTector DPM Advanced model's innovative Auto Log feature can be used to. . .
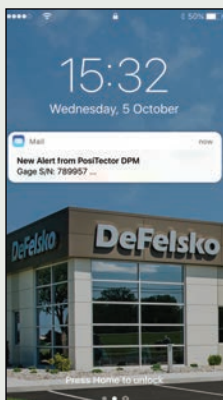
- Monitor and record climatic conditions at user-selected intervals. Advanced models allow you to create new batches at daily, weekly or monthly intervals.
- Upload readings to the cloud-based PosiSoft.net website after each measurement*
- Receive email alerts when readings exceed pre-defined parameters*
- Upload readings to an FTP server for integration with third party software*
- View environmental readings from one or more gages in remote locations from PosiSoft Desktop software or web-based PosiSoft.net
  * requires an internet connection

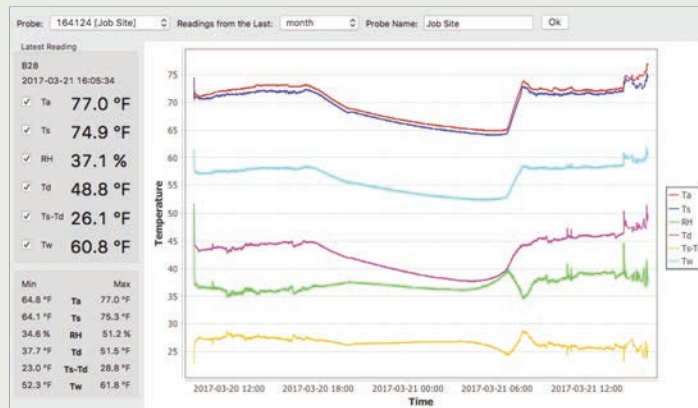*Access your data from any web-connected device.*

PosiSoft Desktop software includes the PosiTector DPM Monitor feature for continuous charting of readings from one or more dew point meters. PosiTector DPM Monitor refreshes data from PosiSoft.net once every minute.

Receive email alerts when readings exceed pre-defined parameters

Probe Description	Integral Probe with Direct Contact Surface Temperature Sensor	Integral Probe with Infrared Surface Temperature Sensor	Integral Probe with K-type Cabled Surface Temperature Sensor	Integral Probe with Wind Speed Sensor	Cabled Probe with 1/2" NPT Threads
Measured/ Calculated Parameters	Surface Temperature Air Temperature Wet Bulb Temperature* Relative Humidity Dew Point Temperature Surface Temperature minus Dew Point Temperature	Surface Temperature Air Temperature Wet Bulb Temperature* Relative Humidity Dew Point Temperature Surface Temperature minus Dew Point Temperature	Surface Temperature Air Temperature Wet Bulb Temperature* Relative Humidity Dew Point Temperature Surface Temperature minus Dew Point Temperature	Surface Temperature Air Temperature Wet Bulb Temperature* Relative Humidity Dew Point Temperature Surface Temperature minus Dew Point Temperature Wind Speed	Air Temperature Relative Humidity Dew Point Temperature
Order Guide					
Standard Body and Probe	DPM1	DPMIR1	DPMS1	DPMA1	DPMD1
Advanced Body and Probe	DPM3	DPMIR3	DPMS3	DPMA3	DPMD3
Probe only	PRBDPM	PRBDPMIR	PRBDPMS	PRBDPMA	PRBDPMD

*Wet Bulb Temperature displayed/recorded on PosiTector Advanced (3) models only

ALL GAGES COME COMPLETE with environmental sensors, protective rubber holster with belt clip, wrist strap, 3 AAA batteries, instructions, nylon carrying case with shoulder strap (DPM/DPMA/DPMD), hard shell carrying case (DPMS), protective lens shield, Long Form Certificate of Calibration traceable to NIST, USB cable, two year warranty.

SIZE: 159 x 61 x 31 mm
(6.25" x 2.4" x 1.2")

WEIGHT: 150 g (5.3 oz.)
without batteries

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

Hot-wire anemometer with your choice of wind speed measurement units — m/s, km/h, mph, ft/s, ft/m, knots. DPM A models only.

Flip Display enables right-side-up viewing in any position. PosiTector DPM A shown.

PosiTector DPM D probe includes ½" NPT threads for insertion into pipes.

PosiTector DPM IR probe includes infrared surface temperature sensor.

Analyze Readings using a web browser from anywhere – jobsite or head office.

Rugged Features...

- Sealed USB Port for communicating with a PC or Mac
- Water and dust resistant

WEATHERPROOF

- High contrast color LCD with backlit display
- Scratch/solvent/impact resistant lens

Display reads:
```
PosiTector®
%RH   73.7↓
Ta    76.9
Ts    77.4
Td    67.9
Ts-Td  9.5
              °F
```

- Multi-function navigation button
- Solvent, acid, oil resistant, high grade, industrial strength housing

DPM

Integral Probe shown

- Air temperature and humidity sensor
- Built-in thermocouple or infrared surface temperature sensor

Specifications	Range	Accuracy	Resolution
Surface Temperature	−40° to 80° C	± 0.5° C	0.1° C
	80° to 190° C	± 1.5° C	
	−40° to 175° F	± 1° F	0.1° F
	175° to 375° F	± 3° F	
Infrared Surface Temperature*	−70° to 380° C	± 1°C + 1%**	0.1° C
	−94° to 716° F		0.1° F
Air Temperature	−40° to 80° C	± 0.5° C	0.1° C
	−40° to 175° F	± 1° F	0.1° F
Humidity	0 to 100%	± 3%	0.1%
Wind Speed†	0 to 20 m/s	± 3% Full Scale	0.1 m/s
	0 to 44 mph		0.1 mph
Dew Point	−60° to 80° C	± 3° C‡	0.1° C
	−76° to 175° F	± 5.4° F‡	0.1° F

* DPM IR models only
** At 23° C ambient
† DPM A models only
‡dependent on RH. See www.defelsko.com/TdAccuracy for more information.

PosiTector DPM IR Specifications	
Distance to Spot Ratio (D:S)	4:1
Emissivity	Adjustable
Response Time	<500 µs (95% response)

Options

PosiTector Probes
PosiTector bodies accept all PosiTector probes easily converting from a coating thickness gage to a surface profile gage, dew point meter, soluble salt tester, hardness and ultrasonic thickness gage.
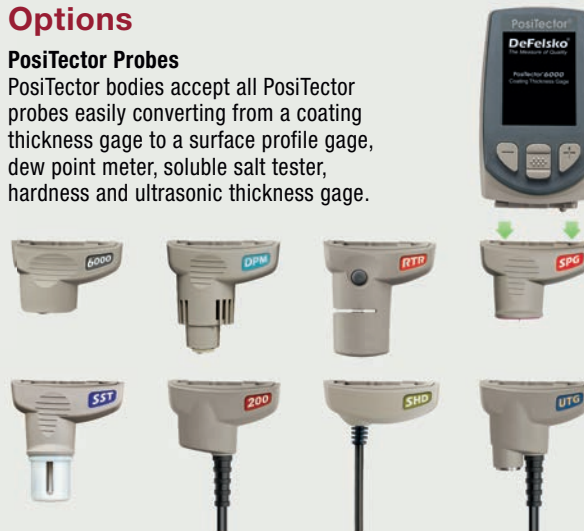
Bluetooth™ Printer
receives data from Advanced Models

Rechargeable Batteries
a set of eneloop NiMH AAA batteries

AC Power Kit
for continuous operation or battery charging — works in any country

Protective Lens Shield
protect the display from overspray

Additional K-type Sensors for use with PosiTector DPMS

Hand-held Surface Temperature Probe (PRBDPMHSP)
- for spot checking hard-to-reach surfaces

Liquid Temperature Probe (PRBDPMLTP)
- general purpose probe with stainless steel shaft

DeFelsko®
Inspection Instruments

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Toll Free 1-800-448-3835 • Tel: +1-315-393-4450 • Fax: +1-315-393-8471
techsale@defelsko.com • www.defelsko.com

Made in U.S.A.

PosiTector® *IRT*

Infrared Thermometer

Non-contact surface temperature measurement
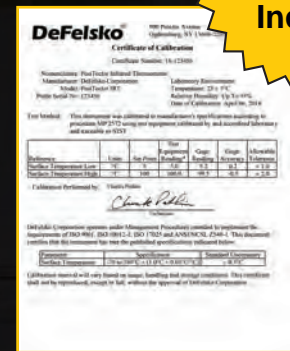
Award Winning Compatibility!

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

Add the new PosiTector IRT probe to enhance any PosiTector Inspection Kit

DeFelsko®
The Measure of Quality

Available on the App Store

WiFi

PosiTector® *IRT*
Infrared Thermometer

All Gages Feature...

Simple
- Surface temperature is constantly updated and displayed simultaneously
- Button activated laser pointer for simple, accurate targeting
- Enhanced one-handed menu navigation
- RESET feature instantly restores factory settings

Durable
- Solvent, acid, oil, water and dust resistant—weatherproof
- Non-contact sensor won't get caught or worn
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on body AND probe

Accurate
- Certificate of Calibration showing traceability to NIST included (Long Form)
- Fast response precision sensor provides accurate, repeatable readings
- 5.7:1 distance to spot ratio—ideal for measuring large areas
- Smart Trend™ indicators identify rising, falling or stable readings

Versatile
- PosiTector body accepts all PosiTector IRT, DPM, 6000, 200, RTR, SPG, SST, SHD and UTG probes easily converting from an infrared thermometer, to a dew point meter, coating thickness gage, surface profile gage, soluble salt tester, Shore hardness durometer or ultrasonic wall thickness gage
- Selectable emissivity values - choose from 7 preset material options, set a custom emissivity value, or adjust to a known temperature
- High contrast LCD with backlit display
- Auto rotating display with lock to prevent unintended rotations
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Scanning Statistics Mode —continually displays/updates average, standard deviation, min/max surface temperature and number of readings while measuring one reading per second
- Screen Capture—save screen images for record keeping and review
- Pause function allows readings to be manually recorded
- HiLo alarm audibly and visibly alerts when readings exceed user-specified limits
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—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
- Includes PosiSoft suite of solutions for analyzing and reporting data

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

Advanced Models
Includes ALL features as shown on left plus...
- Storage of 100,000 readings from multiple probes in up to 1,000 batches
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- ✴ Bluetooth® **4.0 Technology** for data transfer to a mobile device running the PosiTector App or optional portable printer. **BLE API** available for integration into third-party software.
- Onscreen Batch Annotation—add notes, change batch names and more with built-in QWERTY keyboard
- Store thickness, profile, environmental, salt contamination, hardness and wall thickness measurements in individual batches
- Trend Charts graph readings in real-time

For a complete comparison of the Standard and Advanced features visit www.defelsko.com/irt

Specifications	Range	Accuracy	Resolution
Temperature Range	−70˚ to 380˚ C	± 1˚C + 1%*	0.1˚ C
	−94˚ to 716˚ F		0.1˚ F

*At 23˚ C ambient

Laser Pointer	Class 2 < 1mW
Distance to Spot Ratio (D:S)	5.7:1
Emissivity	Adjustable
Response Time	<500 µs (95% response)
Spectral Response	2 - 14 µm

ALL GAGES COME COMPLETE with IR temperature probe, protective rubber holster with belt clip, wrist strap, 3 AAA batteries, instructions, nylon carrying case with shoulder strap, protective lens shield, Long Form Certificate of Calibration traceable to NIST, USB cable, two year warranty.

SIZE: 137 x 61 x 31 mm (5.4" x 2.4" x 1.1")
WEIGHT: 140 g (4.9 oz.) without batteries

Ordering Guide	
Standard gage body and probe	IRT1
Advanced gage body and probe	IRT3
Probe Only	PRBIRT

LASER LIGHT DO NOT STARE INTO BEAM
Class 2 laser product
652 nm < 1mW CW
EN/IEC 60825-1-2014 (2007 USA)

Two Powerful Modes
to quickly analyze large areas

- *Scanning Statistics Mode* records one reading per second
- *HiLo Alarm* compares results to user-specified limits and alerts the user when readings exceed these limits

Scanning Statisitics Mode   *HiLo Alarm*

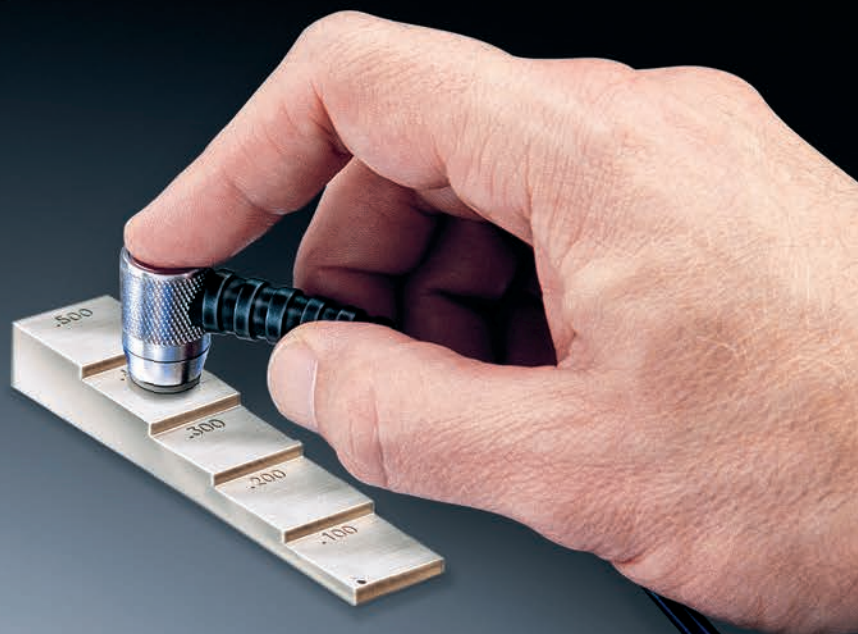# PosiTector® *UTG* Series
Ultrasonic Thickness Gage

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

PosiTector®

Steel ▼

0.400

inch

UTG

3.86

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

DeFelsko®
The Measure of Quality

Available on the App Store

WiFi

Bluetooth®

PosiTector® *UTG* *Series*

All Gages Feature...

Simple

- 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
- RESET feature instantly restores factory settings

Durable

- Solvent, acid, oil, water and dust resistant—weatherproof
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on gage 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

- PosiTector body accepts all PosiTector probes easily converting from an ultrasonic wall thickness gage to a coating thickness gage, surface profile gage, dew point meter, soluble salt tester, or hardness tester
- High contrast LCD with backlit display
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful

- Min Scan mode—measurement rate of up to 20 readings/sec with onscreen min/max for quick inspection over a large area
- Continually displays/updates average, standard deviation, min/max thickness and number of readings while measuring
- Screen Capture—save screen images for record keeping and review
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Includes PosiSoft suite of software for viewing and reporting data

Probe Style	Corrosion Probe		Multiple Echo Probe	
Standard Model	UTGC1	UTGCX1	UTGM1	
Advanced Model	UTGC3	UTGCX3	UTGM3	
Probe Type	5 MHz Dual Element		5 MHz Contact	
Cable Type	PVC	Braided Stainless Steel	PVC	
Mode	Single Echo		Single Echo	Multiple Echo
Measurement Range*	0.040" to 5.000" 1.00 to 125.00 mm		0.100" to 5.000" 2.50 to 125.00 mm	0.100" to 2.500" 2.50 to 60.00 mm
Thru-Paint Capability	no		no	yes
Resolution	0.001" 0.01 mm		0.001" 0.01 mm	
Accuracy	± 0.001" ± 0.03 mm		± 0.001" ± 0.03 mm	

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

B- Scan

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

NEW **UTG CX Xtreme probe** with braided stainless steel cable available for demanding applications

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. Also ideal for measuring on sandblasted materials and other applications requiring a more 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 Single and Multiple Echo modes
  –Multiple Echo mode to eliminate coating thickness
  –Single Echo mode to detect pits/flaws and to increase measurement range

All gages come complete with ultrasonic gel, protective rubber holster with belt clip, wrist strap, 3 AAA alkaline batteries, instructions, protective lens shield, nylon carrying case with shoulder strap, Long Form Certificate of Calibration traceable to NIST, USB cable, PosiSoft Software, 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

UTG C3 Advanced model with A-Scan

PosiTector® *RTR H*

Replica Tape Reader

PosiTector®

XC

H_L 53

microns

RTR

Measures and records surface profile parameters using replica tape

For use with Testex™ Press-O-Film™ Replica Tape

PosiTector®
SmartLink
Compatible

DeFelsko®
The Measure of Quality

Bluetooth®   WiFi   Available on the App Store

PosiTector *RTRH*

Simple

- Measures peak height (H_L)
- Automatically subtracts the 50.8 µm (2 mil) incompressible film from all readings
- Minimizes inspector workload by reducing the number of replicas needed to ensure accuracy (see green inset below)
- Enhanced one-handed menu navigation
- RESET feature instantly restores factory settings

Durable

- Solvent, acid, oil, water and dust resistant—weatherproof
- Rugged indoor/outdoor instrument—ideal for field or shop use
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on gage body AND probe

Accurate

- Produces a more accurate peak-to-valley height measurement (H_L) (see green inset below)
- Certificate of Calibration showing traceability to PTB included
- Conforms to national and international standards including ISO and ASTM

Versatile

- PosiTector body accepts all PosiTector RTR, 6000, 200, SPG, DPM, SST, SHD and UTG probes easily converting from a surface profile gage to a coating thickness gage, dew point meter, soluble salt tester, Shore hardness durometer or ultrasonic wall thickness gage
- Selectable display languages
- High contrast LCD with backlit display
- Flip Display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful

- Continually displays/updates average, standard deviation, min/max height and number of readings while measuring
- Screen Capture—save screen images for record keeping and review
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—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
- Includes PosiSoft suite of software for viewing and reporting data

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Linearized Peak Height Measurement (H_L)

Coarse and X-Coarse replica tape share a 38–64 µm (1.5–2.5 mil) "overlap" region. Measurements with analog micrometers require a complicated linearization procedure—averaging the two grades of replica tape to achieve reasonable accuracy.

With a single measurement, the PosiTector RTR produces a linearized peak-to-valley height measurement (H_L), accurate over the full range of Coarse and X-Coarse tapes. There is no need to average two or more replicas.

Select Standard or Advanced Features

Standard Models

Includes ALL features as shown on left plus...

- Storage of 250 readings per probe—stored readings can be viewed or downloaded

Advanced Models

Includes ALL features as shown on left plus...

- Storage of 100,000 readings from multiple probes in up to 1,000 batches
- Live graphing of measurement data
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- **Bluetooth® 4.0 Technology** for data transfer to a mobile device running the PosiTector App or optional portable printer. **BLE API** available for integration into third-party software.
- Onscreen Batch Annotation—add notes, change batch names and more with built-in QWERTY keyboard

For a complete comparison of the Standard and Advanced features visit www.defelsko.com/rtr

PosiTector SmartLink™ Compatible

- Wirelessly connect PosiTector RTR H probes to your smart device
- Turns your cell phone or tablet into a virtual PosiTector gage
- Includes free mobile app

Ordering Guide	
Standard Model	RTRH1
Advanced Model	RTRH3
Probe Only	PRBRTRH

For information on measuring common 2D/3D profile parameters such as Ra, Rz, Sq, Spd and more with the *NEW* PosiTector RTR 3D visit www.defelsko.com/RTR3D

Peak Height (H_L) Specifications

Range	20–115 µm (0.8–4.5 mils)
Accuracy	±5 µm (±0.2 mils)
Resolution	1 µm (0.1 mil)

ALL GAGES COME COMPLETE with stainless steel burnishing tool, 5 cleaning cards, check shim(s), surface cleaning putty, 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 PTB, USB cable, PosiSoft Software, two (2) year warranty on body and probe.

Conforms to ASTM D4417, ISO 8503-5, NACE RP287, SSPC-PA 17, SSPC-SP5, SP6, SP10, SP11-87T and others.

DeFelsko®
The Measure of Quality

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Toll Free 1-800-448-3835 • Tel: +1-315-393-4450 • Fax: +1-315-393-8471
techsale@defelsko.com • www.defelsko.com

PosiTector® *RTR* 3D
Replica Tape Reader

3D

Measures and records surface profile parameters using replica tape

Precision machined plastic

Textured mold

Shot blasted steel

PosiTector®

xC

Ra 6.3
Rt 35.8
Rpc 14.0 #/cm

microns
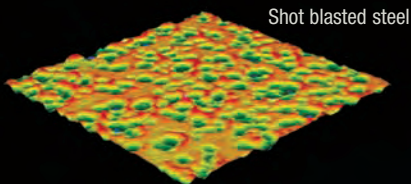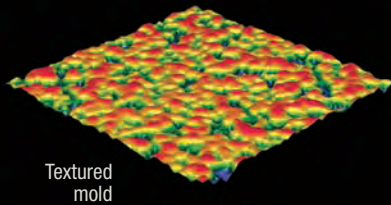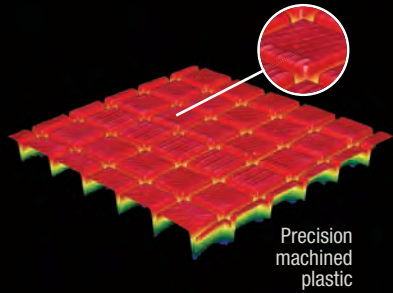
*For use with **OPTICAL Grade** Testex™ Press-O-Film™ Replica Tape*

RTR

Advanced model shown

DeFelsko®
The Measure of Quality

Bluetooth®   WiFi   Available on the App Store

PosiTector®*RTR**3D*

All Gages Feature...

Simple

- Measures peak height (H_L) and common 2D/3D profile parameters such as Ra, Rz, Sq, Spd and more (see inset below)
- Enhanced one-handed menu navigation
- RESET feature instantly restores factory settings

Durable

- Solvent, acid, oil, water and dust resistant—weatherproof
- Rugged indoor/outdoor instrument—ideal for field or laboratory use; flat curved or irregular surfaces
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on gage body AND probe

Accurate

- Certificate of Calibration (containing Ra and Rt measurements) showing traceability to an accredited national laboratory included
- Conforms to national and international standards including ISO and ASTM

Versatile

- PosiTector body accepts all PosiTector RTR, 6000, 200, SPG, DPM, SST, SHD and UTG probes easily converting from a surface profile gage to a coating thickness gage, dew point meter, soluble salt tester, Shore hardness durometer or ultrasonic wall thickness gage
- Selectable display languages
- High contrast LCD with backlit display
- Flip Display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful

- Calculates and records all fourteen 2D and 3D parameters (below) with each measurement
- Screen Capture—save screen images for record keeping and review
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—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
- Includes PosiSoft suite of software for viewing and reporting data
- Apply short and long cutoff filters and discard lengths to optimize the analysis for a specific application
- Orient the 2D trace between horizontal, vertical and diagonal (XY, YX)

2D Parameters – 'R' – Profile Parameters

R_a	Roughness Average
R_q	Root mean square roughness
R_p	Maximum Profile Peak Height
R_v	Maximum Profile Valley Depth
R_t	Total Profile Height
R_z	Average Maximum Height of the Profile
R_{pc}	Peak Count per unit length

3D Parameters – 'S' – Height/Amplitude

H	Average maximum peak-to-valley height
S_a	Average roughness
S_q	Root mean square roughness
S_z	Maximum area peak-to-valley height
S_p	Maximum area peak height
S_v	Maximum valley depth
S_{pd}	Areal peak density

XC   λs=0 λc=0.8

Ra 6.3 H_L 65
Sa 6.9 S_{pd} 82

microns

Typical display of the Advanced model

Optical Grade Tape is required for measuring 2D/3D parameters

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Select Standard or Advanced Features

Standard Models

Includes ALL features as shown on left plus...

- Storage of 250 readings—stored readings can be viewed or downloaded

Advanced Models

Includes ALL features as shown on left plus...

- Storage of 100,000 readings in up to 1,000 batches
- Live graphing of measurement data
- Download high resolution Surface Data Files (.SDF) for analysis in the included PosiSoft or third-party software
- Generates two dimensional (2D) and three dimensional (3D) thumbnail images. Ideal for inclusion into reports and confirming consistent blasting results.
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- Bluetooth 4.0 Technology for data transfer to a mobile device running the PosiTector App or optional portable printer. BLE API available for integration into third-party software.
- Onscreen Batch annotation—add notes, change batch names and more with built-in QWERTY keyboard

For a complete comparison of the Standard and Advanced features visit www.defelsko.com/RTR3D
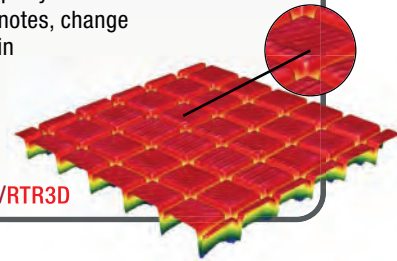
Ordering Guide	Peak Height/2D/3D
Standard	RTR3D1
Advanced	RTR3D3
Probe Only	PRBRTR3D

Measuring Range (H)	20 – 115 µm	0.8 – 4.5 mils
Measuring Range (Rt)	10 – 115 µm	0.4 – 4.5 mils
Minimum Roughness (Ra)	2 µm	0.08 mil/80 µin
Accuracy (H)	$\pm$ 5 µm	$\pm$ 0.2 mil
Accuracy (Rt)*	$\pm$ (5 µm + 5%)	$\pm$ (0.2 mil+ 5%)
Accuracy (Ra)*	$\pm$ (0.25 µm + 5%)	$\pm$ (0.01 mil + 5%)
Anvil Pressure	1.1 Newtons	110 grams-force
Anvil Size	Ø6.25 mm	Ø0.25 inch
Field of View	3.8 x 3.8 mm	0.149 x 0.149 inch
Lateral Sampling	3.7 µm	0.145 mil
Vertical Resolution	100 nm - 2D/3D 10 nm - SDF	3.93 µin - 2D/3D 0.393 µin - SDF
Resolution	0.1 µm	0.01 mil

* When measured using Optical Grade X-Coarse Replica Tape

ALL GAGES COME COMPLETE with one roll of Optical Grade X-Coarse tape, stainless steel burnishing tool, burnishing ball, 5 cleaning cards, check shim(s), replica tape holder, microfiber cleaning cloth, surface cleaning putty, 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 (containing Ra and Rt values) traceable to an accredited national laboratory, USB cable, PosiSoft Software, two (2) year warranty on body and probe.
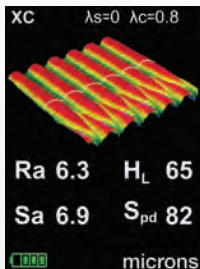
Conforms to ASME B46, ASTM D4417, ISO 8503-5, NACE SP287, SSPC-PA 17, SSPC-SP5, SP6, SP10, SP11-87T and others.

PosiTector® *SPG* Series

Surface Profile Gages for blasted steel, textured coatings and concrete

PosiTector®

R

2.3

thou/mils

SPG

NEW!

PosiTector
2.43
mm
SPG

NEW concrete surface profile probe available

DeFelsko®
The Measure of Quality

App Store

WiFi

PosiTector®
SmartLink™
Compatible

PosiTector® *SPG* Series

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
- Alumina wear face and tungsten carbide tip for long life and continuous accuracy—field replaceable tips
- Solvent, acid, oil, water and dust resistant—weatherproof
- Rugged, indoor/outdoor instrument—ideal for field or shop use
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on gage body AND probe

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

Versatile
- PosiTector body universally accepts all PosiTector SPG, 6000, 200, RTR, SPG, DPM, SST, SHD and UTG probes easily converting from a surface profile gage to a coating thickness gage, dew point meter, soluble salt tester, Shore hardness durometer or ultrasonic wall thickness gage
- Cabled probes available for blasted steel, textured coatings and concrete profile
- High contrast LCD with backlit display
- Flip Display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Continually displays/updates average, standard deviation, min/max depth and number of readings while measuring
- Screen Capture—save screen images for record keeping and review
- HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Software updates via the internet keep your gage current
- Every stored measurement is date and time stamped
- Includes PosiSoft suite of software for viewing and reporting data

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

Advanced Models
Includes ALL features as shown on left plus...
- Storage of 100,000 readings from multiple probes in up to 1,000 batches and sub-batches
- SmartBatch™ allows entry of user-defined parameters and criteria for quick statistical analysis to comply with standards such as ASTM D4417
- Live graphing of measurement data
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- ✸ Bluetooth® **4.0 Technology** for data transfer to a mobile device running the PosiTector App or optional portable printer. **BLE API** available for integration intio third-party software.
- Onscreen Batch Annotation—add notes, change batch names and more with built-in QWERTY keyboard

PosiTector® *SmartLink*™ Compatible
- Wirelessly connect PosiTector SPG probes to your smart device
- Turns your cell phone or tablet into a virtual PosiTector gage
- Includes free mobile app

All probes feature a durable Alumina wear face and tungsten carbide tip for long life and continuous accuracy.

Accessories
- Certified SPG Standards to verify accuracy and operation of surface profile depth micrometers
- Replacement non-certified metal check shim and glass zero plate
- Replacement tungsten carbide probe tips
- AC Power Kit for continuous AC operation or battery charging
- Rechargeable Batteries—a set of eneloop NiMH AAA batteries

All Gages Come Complete with glass zero plate, metal check 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 PTB, USB cable, PosiSoft Software, two (2) year warranty on body and probe.

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), U.S. Navy NSI 009-32, SANS 5772 and others

Ordering Guide

Probe Type	Integral	Cabled		
Standard	SPG 1	SPG S1	SPG CS1	SPG TS1
Advanced	SPG 3	SPG S3	SPG CS3	SPG TS3
Probe Only	PRBSPG	PRBSPGS	PRBSPGCS	PRBSPGTS
Application	Blasted Steel		Textured Coatings	Concrete Surface Profile
Range	0–500 µm 0–20 mils		0–1,500 µm 0–60 mils	0–6 mm 0–250 mils
Accuracy	±(5 µm + 5%) ±(0.2 mils + 5%)			±(25 µm + 1%) ±(1 mil + 1%)
Tip — Angle	60˚*		60˚	
Tip — Radius	50 µm (2 mils)		500 µm (20 mils)	

__30˚ tips available__ for conformance to Australian standard AS 3894.5-C

Made in U.S.A.

PosiTector® *BHI*

Barcol Hardness Impressor

Measures the hardness of soft metals, reinforced plastics, and other materials

PosiTector® *BHI*
Barcol Hardness Impressor

All Gages Feature...

Simple
- Easy-to-read digital display
- Comparable to 934-1 Barcol Hardness Tester
- User-adjustable measurement time with onscreen countdown
- Includes spare, field replaceable indentor with replacement tool
- Lightweight, portable device can be used in any orientation
- RESET feature instantly restores factory settings

Durable
- Solvent, acid, oil, water and dust resistant — weatherproof
- Shock-absorbing, protective rubber holster with belt clip
- Hard-shell carrying case included
- Two year warranty on gage body AND probe

Accurate
- Long Form Certificate of Calibration included
- Hi-RES mode increases displayed resolution for use on applications that require greater precision
- Includes hard and soft aluminum alloy test disks with leveling plate to verify gage operation
- Conforms to national and international standards including ASTM

Versatile
- PosiTector body accepts all PosiTector BHI, SHD, 6000, 200, DPM, IRT, RTR, SPG, SST, and UTG probes easily converting from a hardness tester to a coating thickness gage, dew point meter, infrared thermometer, surface profile gage, soluble salt tester, or ultrasonic wall thickness gage
- 1 and 2 point calibration options with *Cal Reset* to restore factory settings
- Selectable display languages
- High contrast LCD with backlit display
- Flip display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Continually displays/updates average, standard deviation, min/max hardness and number of readings while measuring
- Screen Capture – save screen images for record keeping and review
- HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
- USB port for fast, simple connection to a PC and to supply continuous power
- PosiSoft USB Drive – stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Software updates via the internet keep your gage current
- Includes PosiSoft suite of software for viewing and reporting data

Accessories
- **Test Disks** (pack of 5) for verifying the operation of Barcol hardness impressors. Choose from hard or soft aluminum alloys
- **Replacement Indentors** includes additional indentors (2) with replacement tool
- **Replacement Glass Plate** for zeroing worn or replaced indentors

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

Advanced Models
Includes ALL features as shown on left plus...
- Storage of 100,000 readings from multiple probes in up to 1,000 batches and sub-batches
- Auto Sub-Batch—automatically create new sub-batches after the desired number of readings are taken
- Live graphing of measurement data
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- **Bluetooth® 4.0 Technology** for data transfer to a mobile device running the PosiTector App or optional portable printer. **BLE API** available for integration into third-party software.
- Batch/Reading annotation—add notes and change batch names with onscreen QWERTY keyboard
- Store thickness, profile, environmental, salt contamination, hardness and wall thickness measurements in individual batches

For a complete comparison of the Standard and Advanced features visit www.defelsko.com/bhi

PosiTector BHI Specifications	
Typical Applications	Soft metals such as aluminum, aluminum alloys, copper, brass, and other materials such as harder plastics, and fiber-reinforced plastic
Range	20 – 100 Barcol
Resolution	0.1 Barcol
Accuracy	± 2 Barcol

ALL GAGES COME COMPLETE with test disks (2), leveling plate, replacement indentor with replacement tool, glass plate, protective rubber holster with belt clip, wrist strap, 3 AAA batteries, instructions, hard shell case, protective lens shield, Long Form Certificate of Calibration, USB cable, PosiSoft Software, two year warranty.

GAGE BODY
Size: 137 x 61 x 28 mm
(5.4" x 2.4" x 1.1")
Weight: 140 g (4.9 oz.)
without batteries

PROBE
Size: 145 x 97 x 64 mm
(5.7" x 3.8" x 2.5")
Headroom: 140 mm (5.5")
Weight: 400 g (14.1 oz.)

Ordering Guide	
Standard gage body and probe	BHI1
Advanced gage body and probe	BHI3
Probe only	PRBBHI

Conforms to ASTM B648/D2583, DIN EN 59 and AS/NZS 3572.22

PosiTector®*SHD*
Shore Hardness Durometer

Measures the hardness of non-metallic materials.
Two models are available – Shore A and Shore D

PosiTector®

HD

51

3 s
SHORE D

SHD

Available on the
App Store

Bluetooth®

WiFi

DeFelsko®
The Measure of Quality

PosiTector®SHD
Shore Hardness Durometer

All Gages Feature...

Simple
- Easy-to-read digital display
- User-adjustable measurement time with onscreen countdown to conform to national and international standards
- RESET feature instantly restores factory settings

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

Accurate
- Certificate of Calibration showing traceability to NIST included
- Auto Ignore mode disregards readings below 20 and above 90 per international standards
- Hi-RES mode increases displayed resolution to 0.1
- Includes test block to verify operation
- Conforms to national and international standards including ISO and ASTM

Versatile
- PosiTector body accepts all PosiTector SHD, 6000, 200, SPG, RTR, DPM and UTG probes easily converting from a shore hardness durometer to a coating thickness gage, surface profile gage, dew point meter or wall thickness gage
- Selectable display languages
- High contrast, reversible color LCD with backlit display
- Flip display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Continually displays/updates average, standard deviation, min/max hardness and number of readings while measuring
- Screen Capture – save screen images for record keeping and review
- HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
- USB port for fast, simple connection to a PC and to supply continuous power
- PosiSoft USB Drive – stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Software updates via the internet keep your gage current
- Includes PosiSoft suite of software for viewing and reporting data

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

Advanced Models
Includes ALL features as shown on left plus...
- Storage of 100,000 readings in up to 1,000 batches and sub-batches
- Auto Sub-Batch – automatically create sub-batches after the required number of readings are taken
- Live graphing of measurement data
- Batch/Reading annotation—add notes and change batch names with onscreen QWERTY keyboard
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- Data transfer via USB to a PC or via **Bluetooth**® Wireless Technology to a mobile device, PC or printer
- Store thickness, profile, environmental, wall thickness and hardness measurements in individual batches

NEW PosiTector App
- Mobile app connects PosiTector Advanced instruments to your *iOS* or *Android* smart device
- Auto-pairing *Bluetooth BLE* connection
- Easily create custom reports from your measurement data in seconds
- Export readings to PosiSoft Desktop or synchronize readings with PosiSoft.net for further reporting and archival options
- For a complete list of features visit www.defelsko.com/PosiSoft

Accessories
- **Test Blocks** for Shore A or Shore D. Ideal for checking the operation of durometers.
- **Durometer Test Stands** facilitate consistent probe placement. Two models available — Shore A or Shore D.
- **PosiTector SHD Universal Adaptor** for use with threaded mounts in other test stands or calibrators

The PosiTector *SHD Shore Hardness Durometer* can be used as a handheld instrument or placed in a test stand to reduce operator influence.

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

Body Size: 137 x 61 x 28 mm (5.4" X 2.4" X 1.1")
Weight: 185 g (6.5 oz.) without batteries

Conforms to ASTM D2240, ISO 868/7267/7619 and DIN 53505

Select from two measurement ranges

Probes	Shore A	Shore D
Typical Applications	Soft to hard materials such as soft rubber, elastomers, neoprene, silicone, etc.	Medium to extra hard materials such as hard rubber, epoxies, hard plastics, PVC, acrylic, etc.
Range	0 – 100	
Accuracy	± 1	
Resolution	0.1	

DeFelsko®
The Measure of Quality

Made in U.S.A.

PosiTector® *SST* *Soluble Salt Tester*

Simple
- Conductivity probe specifically designed for ISO 8502-6,9
- Displays test duration, sample temperature, conductivity (µS/cm) and surface density (mg/m² or µg/cm²)
- Onscreen interface guides users through the Bresle test method
- Automatic storage of a background (blank) measurement — handy when performing multiple tests

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

Accurate
- Long Form Certificate of Calibration showing traceability to NIST included
- Includes certified conductivity standard (calibration solution) to verify probe accuracy. Certificate included.
- Automatic temperature normalization and sample temperature reporting
- Conforms to national and international standards including ISO, NACE, SSPC, IMO and US Navy

Versatile
- PosiTector body accepts all PosiTector SST, 6000, 200, RTR, SPG, DPM, SHD and UTG probes easily converting from a soluble salt tester to a coating thickness gage, surface profile gage, dew point meter, Shore hardness durometer or ultrasonic wall thickness gage
- Ideal for determination of water-soluble contaminants in non-metallic blast media
- A selection of kits include everything needed to retrieve and analyze the concentration of soluble salts on surfaces
- Adjustable for various patch volumes
- Selectable display languages
- High contrast reversible color LCD with backlit display
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful
- Tracks test duration in accordance with ISO 8502-6
- Screen Capture—save screen images for record keeping and review
- USB port for fast, simple connection to a PC and to supply continuous power
- Every stored measurement is date, time and temperature stamped
- Software updates via internet keep your gage current
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Includes PosiSoft suite of software for viewing and reporting data

Select Standard or Advanced Features

Standard Models
Includes ALL features as shown above plus...
- Storage of 250 readings—stored readings can be viewed or downloaded

Advanced Models
*Includes ALL features as shown above plus...*
- Storage of 100,000 readings in up to 1,000 batches
- Batch annotation—add notes and change batch names with onscreen QWERTY keyboard
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- Data transfer via USB to a PC or via Bluetooth® Wireless Technology to a mobile device, PC or printer
- Store thickness, profile, environmental, wall thickness, hardness and salt contamination measurements in individual batches
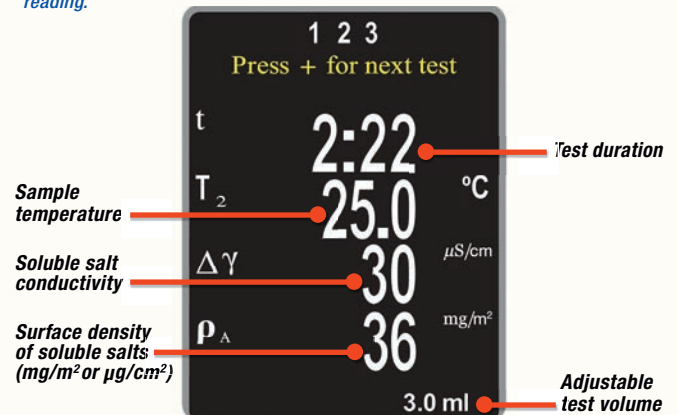
Easy 1-2-3 Bresle Test

Reference...
Fill the syringe with DI water. Take background reading.
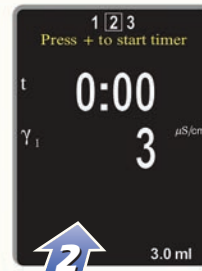
Sample...
Inject water into patch. Start timer.

Record...
Withdraw, inject into PosiTector SST.

Test duration

Sample temperature

Soluble salt conductivity

Surface density of soluble salts (mg/m² or µg/cm²)

Adjustable test volume

PosiSoft®
FREE SOLUTIONS for viewing, analyzing and reporting data:

US812 Bridge Approach — ABC COMPANY

Salt Test US812-SB

Created:	2016-09-15 15:56:49
PosiTector Body S/N:	784293
Probe Type:	PosiTector SST
Probe S/N:	285817

Summary

	#	x̄	σ	↓	↑
Conductivity Δγ (uS/cm)	13	31.8	3.1	24	35
Surface Density ρA (mg/m²)	13	38.3	3.8	29	42

Readings

#	γ₁ (uS/cm)	γ₂	Δγ	ρA (mg/m²)	Duration	T₁ (°C)	T₂ (°C)	Volume (ml)	Time
1	2	26	24	29	2:20	26.4	26.4	3.0	2016-09-15 16:03:30
2	0	34	34	41	2:17	26.6	26.8	3.0	16:06:48
3	0	35	35	42	2:13	26.8	26.3	3.0	16:09:16
4	1	36	35	42	2:10	26.3	25.7	3.0	16:11:48
5	5	34	29	35	2:08	25.6	25.3	3.0	16:14:52
6	0	33	33	40	2:12	25.3	25.4	3.0	16:17:42
7	3	32	29	35	2:14	25.6	25.8	3.0	16:20:40
8	3	33	30	36	2:15	25.6	26.3	3.0	16:23:24
9	0	34	34	41	2:13	26.7	26.6	3.0	16:26:03
10	1	34	33	40	2:13	26.7	27.6	3.0	16:28:35
11	1	34	33	40	2:18	26.7	27.9	3.0	16:31:10
12	1	34	33	40	2:30	26.7	27.8	3.0	16:34:05
13	1	32	31	37	2:10	26.7	27.3	3.0	16:36:47

2

PosiTector® *SST* *Bresle Method Patch Options*

PosiPatch
Reusable patch with Standard or Flexible magnetic ring

- For measuring salt contamination in accordance with ISO 8502-6,9
- Magnetic ring attaches PosiPatch to steel with no residue to clean
  - Standard magnetic ring for flat surfaces and diameters >1m (40 in.)
  - Flexible magnetic ring for ID/OD diameters >10 cm (4 in.)†
- Automatic air removal through a watertight, air permeable membrane
- No sharps, no needles! Safe, flexible dispensing tip mates with PosiPatch
- Comparable price to latex patches
- Reusable patent-pending PosiPatch saves time and money
- Easy-to-use in any orientation

Specifications

Test Area*	1250 mm^2
Test Volume	2.5 – 3 ml
Patch Diameter	44.4 mm (1.75 in.)
Magnetic Ring Diameter	66.9 mm (2.6 in.)
Background Contamination*	< 3 mg/m^2

† Flexible Magnetic Ring minimum ID is 12 cm (4.5 in.)
* Certificate included

PosiPatch™ *Advantage...*

Magnetic ring –no adhesive residue to clean

Reusable PosiPatch saves time and money

Automatic air removal through a watertight, air permeable membrane

No sharps! Safe, flexible dispensing tip

Innovative...
PosiPatch attaches to steel surfaces using a unique magnetic ring
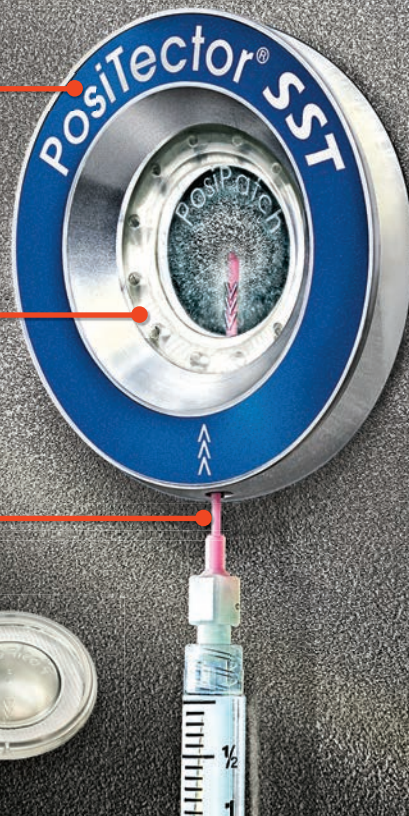
DeFelsko Patch
Self-adhesive, polyurethane patches

- For measuring salt contamination in accordance with ISO 8502-6,9
- Low-tack adhesive for easy patch removal with no residue to clean
- Works on nearly any material or surface geometry
- Latex-free
- Lower cost than latex patch
- Easy-to-use in any orientation

Specifications

Test Area*	1250 mm^2
Test Volume	2 – 3 ml
Dimensions	50 mm x 50 mm (1.97 in. x 1.97 in)
Background Contamination*	< 5 mg/m^2

* Certificate included

Latex Patch
ISO 8502-6 conforming latex patch with easy-open tabs and low-tack adhesive for easy removal

Specifications

Test Area*	1250 mm^2
Test Volume	2 – 15 ml
Dimensions	52 mm x 52 mm (2.05 in. x 2.05 in)
Background Contamination*	< 5 mg/m^2

* Certificate included

Ordering Guide	Gage/Probe Only	Kit P: PosiPatch Kit	Kit D: DeFelsko Adhesive Patch Kit	Kit L: Latex Adhesive Patch Kit
Probe Only[1]	PRBSST	SSTKITP	SSTKITD	SSTKITL
Standard Body + Probe[2]	SST1	SSTKITP1	SSTKITD1	SSTKITL1
Advanced Body + Probe[2]	SST3	SSTKITP3	SSTKITD3	SSTKITL3
Inclusions	• Nylon carrying case with shoulder strap *(SST1 and SST3 only)*	• PosiPatch (5) • Standard Magnetic Ring* • Syringe and Plastic Tip (2) • 250 ml DI Water • Cup (5) • Hard-shell Carrying Case	• DeFelsko Adhesive Patch (25) —— —— —— • Syringe and Needle (2) • 250 ml DI Water • Cup (5) • Hard-shell Carrying Case	• Latex Adhesive Patch (25) —— —— —— • Syringe and Needle (2) • 250 ml DI Water • Cup (5) • Hard-shell Carrying Case

[1] **PosiTector SST Probe Only models come complete with:** certified conductivity standard, foam swabs (5), Long Form Certificate of Calibration traceable to NIST, instructions, PosiSoft Software, two (2) year warranty.

[2] **PosiTector SST Standard/Advanced Body + Probe models come complete with:** protective rubber holster, certified conductivity standard, foam swabs (5), Long Form Certificate of Calibration traceable to NIST, belt clip, wrist strap, 3 AAA alkaline batteries, instructions, protective lens shield, USB cable, PosiSoft Software, two (2) year warranty.

* Substitute the Flexible Magnetic Ring for smaller ID/OD diameters by adding 'F' to the product code (i.e. SSTKITPF, SSTKITPF1, SSTKITPF3).

PosiTector SSTKITP1 shown

PosiTector SST Specifications

Range	$0 - 1500$ µS/cm, $0 - 6000$ mg/m², $0.0 - 600.0$ µg/cm²
Resolution*	1 µS/cm, 1 mg/m², 0.1 µg/cm²
Accuracy	+/- 2 µS/cm ($0 - 200$ µS/cm) +/- 10 µS/cm (>200 – 600 µS/cm) +/- 20 µS/cm (>600 – 1500 µS/cm)
Temperature Range	$0 - 50°$ C ($32 - 122°$ F)
Normalization Temperature	25° C (77° F)
Test Cell Volume	1 ml

* Hi Res Mode 0.1 µS/cm ($0 - 200$ µS/cm)
SIZE: 165 x 61 x 28 mm (6.5" x 2.4" x 1.1")
WEIGHT: 140 g (4.9 oz.) without batteries

PosiPatch Starter Kit (SSTKITPATCHP)
For use with existing conductivity meters. Try the revolutionary, reusable PosiPatch with a low cost trial pack.
Includes: PosiPatch (5), syringe (2), dispensing tip (2), and standard magnetic ring.

Abrasives Test Kit (SSTABRKIT)
Measure the concentration of soluble salts in blast cleaning abrasives in accordance with ASTM D4940 and ISO 11127-6.
Includes: 600 ml glass beaker, 100 ml glass beaker, plastic funnel, 600 ml plastic mixing beaker, 60 ml (2 oz.) Certified Conductivity Standard, 1 liter deionized water (type II), 100 circle filters (125 mm), stainless steel mixing rod, instruction card and certificate of analysis

Replacement Patches

PosiPatch (5 pack) PosiPatch (24 pack)	SSTPATCHP5 SSTPATCHP24
Standard Magnetic Ring for PosiPatch	SSTRING
Flexible Magnetic Ring for PosiPatch	SSTRINGF
DeFelsko Adhesive Patch + needle (25 pack)	SSTPATCHD25
Latex Adhesive Patch + needle (25 pack)	SSTPATCHL25

Consumables

Plastic Dispensing Tips (10 pack) — for use with the PosiPatch
Needles (10 pack) — for use with adhesive patches
3 ml syringes (10 pack) — for use with dispensing tips and/or needles
30 ml Cups (10 pack) — sterile, single-use cups ensure measurement accuracy
Certified Conductivity Standard (60 ml, 2 oz.) — to verify probe accuracy
Deionized Water (250 ml [8 oz.] or 1L [33.8 oz.]) — purified, ion-free water
Foam Swabs (5 pack) — for cleaning the probe's test cell
Circle Filters (100 pack) — 125 mm for use with Abrasives Test Kit

Conforms to ISO 8502-6/8502-9, US Navy NSI 009-32, US Navy PPI 63101-000, AS 3894.6, IMO MSC.215(82), IMO MSC.244(83), SSPC Guide 15, ISO 11127-6, ASTM D4940

DeFelsko®
Inspection Instruments

Made in U.S.A.

PosiTector® *CMM IS*

Concrete Moisture Meter - In Situ

Measures Relative Humidity and Temperature in Concrete Floor Slabs

Wirelessly connects to the PosiTector App (iOS/Android) **and PosiTector *DPM* Advanced models via** ❄ Bluetooth®

Reusable Smart Probes

DeFelsko®
The Measure of Quality

Available on the **App Store**

WiFi

❄ **Bluetooth**®

PosiTector® CMM IS
Concrete Moisture Meter – In Situ Probes

The PosiTector *CMM IS* probes and free mobile app guide users through the ASTM F2170 documentation criteria. View and record readings directly with your smart device or PosiTector *DPM* Advanced gage.

Simple
- Easily collect and report measurements in conformance with ASTM F2170
- No need to open the hole or remove the cap to take a measurement. Probes remain powered on and broadcasting via Bluetooth while in situ for up to three weeks.
- Combined sleeve and probe design simplifies the installation process and does not require consumables
- Uses common coin cell batteries

Durable
- Reusable Smart Probes
- Solvent, acid, oil, water and dust resistant—weatherproof
- Two year warranty

Accurate
- Fast response precision sensors provide accurate, repeatable readings
- Cal Check function automatically determines whether a probe is reading within tolerance
- Long Form Certificate of Calibration showing traceability to NIST included with every probe
- Conforms to national and international standards including ISO and ASTM

Powerful
- Fast acclimation, reduced testing time
- Blue LED confirms the probe is powered on and broadcasting
- Includes free PosiTector mobile app for analyzing and reporting data

Calibration Check Chamber and Saturated Salt Solution
- Designed in accordance with ASTM E104 to maintain a constant relative humidity of 75% @ 25° C
- Store and protect the probes in the dedicated Calibration Check Chamber and Saturated Salt Solution when not in use
- Conditions the sensors for faster acclimation

Specifications	Range	Accuracy	Resolution
Temperature	0˚ to 80˚ C	± 0.5˚ C	0.1˚ C
	32˚ to 175˚ F	± 1˚ F	0.1˚ F
Humidity	10 to 90%	± 2%*	0.1%
	> 90%	± 3%*	

* 0 – 65˚ C (32 – 150˚ F)

For use with the *PosiTector App* and the *PosiTector DPM Advanced*

PosiTector® App
An easy-to-use mobile app (iOS/Android) that wirelessly connects to your PosiTector *CMM IS* Smart Probes.
- Displays the relative humidity and temperature measurements from PosiTector *CMM IS* probes
- Record the date and time of all measurement steps in accordance with ASTM F2170
- Include a blueprint or image and overlay hole/probe locations
- Automatically generate custom, professional PDF reports with all information required by ASTM F2170

PosiTector® DPM Advanced
- Displays and records the relative humidity and temperature measurements from PosiTector *CMM IS* probes as well as the relative humidity and ambient temperature of the PosiTector *DPM* probe
- Storage of 100,000 datasets in up to 1,000 batches
- Includes PosiSoft Suite of solutions for analyzing and reporting data

*PosiTector DPM Advanced model included with the Pro Kit

Options

Expansion Packs (1, 4 and 16 packs available) Add additional reusable PosiTector *CMM IS* Smart Probes as required. Each pack consists of a probe, calibration check chamber, saturated salt solution (NaCl), cap, and A-76/LR-44 coin cell batteries.

Replacement chambers, salt solutions, tools, caps and fins are available upon request

*PosiTector CMM IS **Pro Kit** includes the PosiTector DPM Advanced*

Ordering Guide	Basic Kit CMMISKITB	Complete Kit CMMISKITC	Pro Kit CMMISKITP3-E
Select from 3 expandable Kits and add additional probes as required	• 3 CMM IS probes • 3 Saturated Salt Solutions • 3 Calibration Check Chambers • 3 Caps • Extraction Tool • Tape Measure • Ten A-76/LR-44 coin cell batteries	• 5 CMM IS probes • 5 Saturated Salt Solutions • 5 Calibration Check Chambers • 5 Caps • Extraction Tool • Tape Measure • Vacuum Tool Attachments • Ten A-76/LR-44 coin cell batteries • Hard shell carrying case	• **PosiTector *DPM3* Advanced** • 5 CMM IS probes • 5 Saturated Salt Solutions • 5 Calibration Check Chambers • 5 Caps • Extraction Tool • Tape Measure • Vacuum Tool Attachments • Ten A-76/LR-44 coin cell batteries • Hard shell carrying case

Conforms to **ASTM F2170** *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using in situ Probes.*

PosiTest® *LPD*
Low voltage Pinhole Detector

Detects holidays, pinholes and other discontinuities on metal and concrete substrates

DeFelsko®
The Measure of Quality

PosiTest *LPD*
Low voltage Pinhole Detector

Features...

Simple
- Easy-to-use with bright, multi-function LEDs
- Ready to measure — both kits come with everything needed for testing
- Audibly and visibly alerts when flaws are detected
- Lightweight, ergonomic design

Durable
- Rugged, environmentally sealed enclosure
- Weatherproof, dustproof and shockproof — meets or exceeds IP65
- Two year warranty

Accurate
- Automatic self-test verifies voltage calibration
- Regulated voltage outputs will not drop under load
- Long Form Certificate of Calibration included with each instrument
- *GroundSense*™ visibly reassures the user that the instrument is properly grounded
- Conforms to international standards including ISO, ASTM and NACE

Versatile
- A wide range of adaptable sponge hardware for a variety of test configurations
- Common threads and connectors allow for maximum flexibility
- Headphone jack with included earbud for noisy environments
- Uses 3 AAA alkaline or rechargeable batteries
- 4 voltage output options conform to a variety of standards

Versatile Sponge Hardware and Universal Adapters
for use with existing paint roller extensions
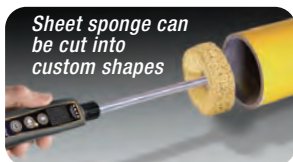
Sheet sponge can be cut into custom shapes

Paint roller extension adapter

Universal pole adapter

Specifications

Voltage	9V ± 5%	67.5V ± 5%	67.5V ± 5%	90V ± 5%
Sensitivity	90kΩ ± 3%	80kΩ ± 3%	90kΩ ± 3%	400kΩ ± 3%
Thickness Range	0 – 500 µm (0 – 20 mils)			
Temperature Range	-10 – 50° C (14 – 122° F)			
Battery Life	> 150 hrs (depending on battery type)			
IP Rating	meets or exceeds **IP65**			

Size: 27 x 6 x 5.5 cm (10.6" x 2.3" x 2.1") without wand
Weight: 180 g (6.4 oz.) without batteries

Conforms to ISO 14654, ISO 8289-A, ASTM G62, G6, D5162, BS7793-2, NACE TM0384, SP0188, AS3894.2, JIS K 6766

Select from 2 PosiTest LPD Kit Options

Basic Kit (LPDKIT**B**)

Includes everything needed for detecting pinholes using a rectangular sponge wand

Basic Kit comes complete with
PosiTest LPD, base tube, 3 AAA batteries, rectangle sponge hardware, rectangle sponge, 4.5 m (15') ground wire, insulating collar, ear bud, wrist strap, carabiner, Long Form Certificate of Calibration traceable to NIST, instructions, hard shell case, two year warranty

Complete Kit (LPDKIT**C**)

Includes the contents of the Basic Kit, adaptable sponge hardware and extension accessories

Adaptable Sponge Hardware for a variety of test configurations

- Rectangle (Flat)
- Roller
- Internal Diameter
- Additional 20 cm x 20 cm (8"x8") sheet sponge for custom usages
- Wetting agent

Extension Accessories
- Extension rods provide an additional 0.6 m (2') of reach
- Universal adapters for use with existing paint roller extensions
- 12 m (40') ground wire
- 4.5 m (15') hot wire
- Magnetic grounding post

Both kits include a hard shell case

Complete Kit shown

Accessory Pack (LPDACC**PK**)

Includes adaptable sponge hardware and accessories to convert the PosiTest LPD Basic Kit into a PosiTest LPD Complete Kit.

PosiTest® *AIR*
Leak Tester

Quickly and easily detect air and water leaks in building envelopes and rigid air barrier systems

Ideal for testing penetrations (fasteners, masonry ties, etc.) and continuity of joints and seams in rigid air barrier systems.

FOR USE WITH...

- Single and two-ply membranes
- Liquid applied membranes
- Sprayed Polyurethane Foam (SPF)
- Boardstock
- Metal Liners
- Exterior Insulation and Finish Systems (EIFS)
- EPDM roofing systems
- Waterproofing and more

DeFelsko®
The Measure of Quality
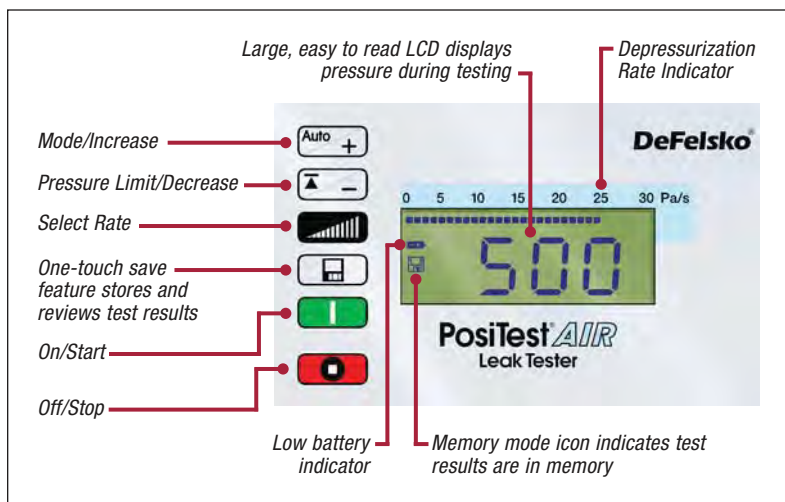
PosiTest® *AIR*
Leak Tester

Ideal for testing penetrations (fasteners, masonry ties, etc.) and continuity of joints and seams in rigid air barrier systems

Bubbles indicate an air leak. An estimate of the relative size of the leak can be made based on the size and speed with which bubbles form.

Features

■ **Automatic mode** depressurizes the test chamber at a user-selectable rate and limit

Manual mode allows the user to control the rate of depressurization

■ Internal memory stores up to 200 test results with rate, time duration, limit and user-entered Pass/Fail conclusion

■ Portable, lightweight tester can be used in any position

■ Environmentally sealed enclosure—dustproof and waterproof

■ Built-in rechargeable batteries perform up to 200 tests per charge. Continue testing with AC power while batteries recharge. Supplied with universal AC adapter

■ High accuracy pressure sensor

■ Conforms to National Standards including ASTM E1186

■ Comes with everything needed for testing

■ Includes FREE downloadable PosiSoft® 3.0 Desktop Software for PC

■ One year warranty

Large, easy to read LCD displays pressure during testing
Depressurization Rate Indicator
Mode/Increase
Pressure Limit/Decrease
Select Rate
One-touch save feature stores and reviews test results
On/Start
Off/Stop
Low battery indicator
Memory mode icon indicates test results are in memory

5' (1.5 m) super flexible, high durability hose

Quick disconnects for easy assembly

Clear, high impact polycarbonate test chamber provides unobstructed view

Soft rubber chamber seal

Environmentally sealed metal enclosure

Sealed USB port for communicating with a PC

AC Adapter port charges batteries or powers tester

Convenient shoulder strap

Variable speed centrifugal fan allows for different rates of depressurization

TESTER COMES COMPLETE with shoulder strap, high impact polycarbonate test chamber, durable 5' (1.5 m) hose with quick disconnect couplings, built-in rechargeable NiMH batteries with charger (AC power supply), 8 oz. test solution with dauber (qty. 4), instruction manual, USB cable, PosiSoft 3.0 Desktop Software (available as a free download), Certificate of Calibration traceable to NIST, one (1) year warranty and soft-sided nylon carrying case

Options
■ **Test Solution:** additional 8 oz. bottles available (case of 16)

Lightweight carrying case

Specifications
Conforms to ASTM E1186

Pressure Differential Range	100–900 Pa
Rate of Depressurization	5–30 Pa/sec
Test Chamber Size	Ø16" (40 cm) Base
Resolution	1 Pa
Accuracy	± (10% + 10 Pa)
Carrying Case Dimensions	38 cm (15") x 48.3 cm Ø (19")
Weight	3.8 kg / 8.5 lbs.
Shipping Weight	6.7 kg / 14.7 lbs.

PosiTector® Inspection Kits
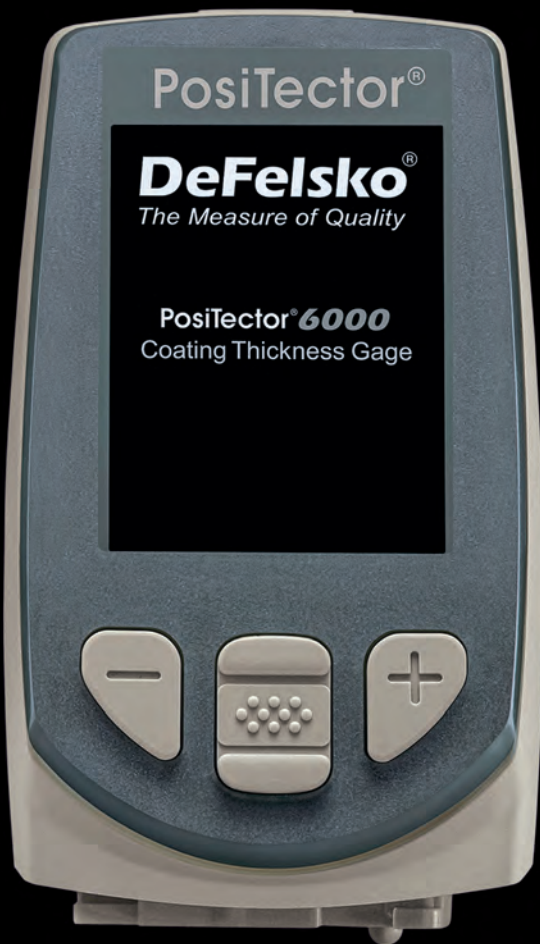
Each Inspection Kit contains:

- 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

Customize your own from our wide selection of gage bodies and probes

KITF3 Shown

DeFelsko®
The Measure of Quality

Bluetooth®   Available on the App Store   WiFi   PosiTector® *SmartLink*™ Compatible

Select Standard or Advanced Features

for a complete comparison visit www.defelsko.com/kits/kit_features.htm

PosiTector body accepts all PosiTector *6000, 200, RTR, SPG, DPM, SST, SHD* and *UTG* probes easily converting from a coating thickness gage to a surface profile gage, dew point meter, soluble salt tester, Shore hardness durometer or ultrasonic wall thickness gage

Standard Model Inspection Kits

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

Coating Thickness with Standard models
- Storage of 250 readings per probe—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 runs unattended on batteries for up to 50 hours or continuously via USB

Surface Profile with Standard Models
- Storage of 250 readings per probe—stored readings can be viewed or downloaded

Advanced Model Inspection Kits

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

Features include:
- Onscreen Batch Annotation—add notes, change batch names and more with built-in QWERTY keyboard
- Live graphing of measurement data
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- **Bluetooth® 4.0 Technology** for data transfer to a mobile device running the PosiTector App or optional portable printer. **BLE API** available for integration into third-party software.

Coating Thickness with Advanced models
- Storage of 100,000 readings in up to 1,000 batches and sub-batches.
- 3 Scan Modes — increase measurement speed to 180+ readings per minute
  - *Normal* – take continuous readings without lifting the probe
  - *NEW Statistics* – take continuous readings and record average, standard deviation, min/max thickness and number of readings while scanning
  - *NEW Limited Count Average* – take continuous readings up to a user-specified count. Gage displays and records the average of the readings.
- Multiple stored calibration adjustments for measuring on a variety of substrate conditions
- SSPC-PA 2 feature determines if film thickness over a large area conforms to user-specified min/max levels

Environmental Monitoring with Advanced models
- Storage of 100,000 datasets in up to 1,000 batches.
- *NEW* Enhanced Auto Log mode turns the gage off between readings for up to 8 months of battery life. Each reading can be uploaded to PosiSoft.net or an FTP server using WiFi. Automatically group readings into batches at daily, weekly, or monthly intervals
- User defined limits for all parameters—visible and audible warnings
- *NEW* Send email alerts when connected to WiFi
- Wet bulb temperature can be displayed and recorded
- Trend Charts graph readings in real-time

Surface Profile with Advanced models
- 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

KITF3 Shown

Each pre-configured 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

Inspection Kit	PosiTector Body	Coating Thickness Probe
KITF1	Standard	6000-F
KITFS1		6000-FS
KITFT1		6000-FT
KITFTS1		6000-FTS
KITFN1		6000-FN
KITFNS1		6000-FNS
KITF3	Advanced	6000-F
KITFS3		6000-FS
KITFT3		6000-FT
KITFTS3		6000-FTS
KITFN3		6000-FN
KITFNS3		6000-FNS

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)   **Weight:** 1.3 kg (2.8 lbs.)
12" (l) x 10" (w) x 4" (d)

Custom Inspection Kits
Build your own Inspection Kit from a selection of gage bodies and probes to suit your needs.

Award Winning Compatibility!
- Coating Thickness
- Surface Profile
- Environmental Conditions
- Shore Hardness
- Salt Contamination
- Ultrasonic Wall Thickness

DeFelsko Coating Thickness Standards

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

Plate Diameter: 38 mm (1.5")   **Measurement Diameter:** 25 mm (1")

Polystyrene Blocks: 38 x 70 mm (1.5" x 2.75")
P8: 76 x 76 mm (3.0" x 3.0")

S1 Ferrous

P1 Polystyrene

A1 Non-Ferrous

Individual plates are available

Order Code	Ideal for	Approximate Thickness				Coating/ Substrate	Accuracy
		Plate 1	Plate 2	Plate 3	Plate 4		
S1	**PosiTector 6000** F, FS, FRS, FXS, FN, FNS, FNRS **PosiTest** F & FM	0	75 μm 3 mils	250 μm 10 mils	1500 μm 60 mils	Epoxy on Steel (Ferrous)	+/- 0.43 μm +/- 0.017 mil
S2	**PosiTector 6000** F0S, F45S, F90S **PosiTest DFT** Ferrous & Combo	0	75 μm 3 mils	250 μm 10 mils	1000 μm 40 mils		
S3	**PosiTest** G & GM **PosiPen** A, B & C	0	15 μm 0.6 mils	40 μm 1.6 mils	100 μm 4 mils		
A1	**PosiTector 6000** N, NS, NRS, FN, FNS, FNRS	0	75 μm 3 mils	250 μm 10 mils	1500 μm 60 mils	Epoxy on Aluminum (Non-Ferrous)	+/- 0.43 μm +/- 0.017 mil
A2	**PosiTector 6000** NAS, N0S, N45S, N90S **PosiTest DFT** Combo	0	75 μm 3 mils	250 μm 10 mils	500 μm 20 mils		
A3	**PosiTector 100**B, **200**, **200B**	75 μm 3 mils	125 μm 5 mils	250 μm 10 mils	500 μm 20 mils		
P1	**PosiTector 6000** FT, FTS, NTS, FNTS **PosiTector 200** D	375 μm 15 mils	2 mm 80 mils	4.5 mm 185 mils	6.5 mm 250 mils	Polystyrene Blocks	+/- (2.5 μm + 0.05% of thickness) +/- (0.1 mil + 0.05% of thickness)
P2	**PosiTector 6000** FHS, NHS, EOC	2.5 mm 100 mils	6.5 mm 250 mils	13 mm 500 mils	19 mm 750 mils		
P3	**PosiTector 100**C	375 μm 15 mils	1.5 mm 60 mils	2.5 mm 100 mils	4.5 mm 185 mils		
P4	**PosiTector 100**D	1.5 mm 60 mils	2.5 mm 100 mils	4.5 mm 185 mils	6.5 mm 250 mils		
P5	**PosiTector 6000** FKS, NKS	1.5 mm 60 mils	2.5 mm 100 mils	6.5 mm 250 mils	12 mm 480 mils		
P6	**PosiTector 200**C	375 μm 15 mils	1.5 mm 60 mils	2.5 mm 100 mils	3 mm 125 mils		
P7	**PosiTector 6000** FHXS	1.5 mm 60 mils	4.5 mm 185 mils	6.5 mm 250 mils	9.5 mm 375 mils		
P8	**PosiTector 6000** FLS, FNGS	13 mm 500 mils	13 mm 500 mils	13 mm 500 mils	19.5 mm 750 mils		

Select the Standard that most closely matches the measuring range of your gage. All certified standards are supplied with a Certificate of Calibration traceable to NIST or PTB.

Made in U.S.A.

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

Steel and aluminum zero plates are available

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

Certified Plastic Shims

Order Code	Approximate Thickness	Color	Accuracy
CS1	25 µm (1 mil)	Orange	
CS2	50 µm (2 mils)	Red	
CS3	75 µm (3 mils)	Green	
CS5	125 µm (5 mils)	Blue	
CS10	250 µm (10 mils)	Brown	+/- 2 µm (+/- 0.08 mils)
CS20	500 µm (20 mils)	Yellow	
CS40	1000 µm (40 mils)	White	
CS60	1500 µm (60 mils)	Black	
CSS	Complete set of 8		

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)

Approximate Thickness	Color	Accuracy
25 µm (1 mil)	Orange	+/- 20%
50 µm (2 mils)	Red	+/- 10%
125 µm (5 mils)	Blue	+/- 5%
250 µm (10 mils)	Brown	+/- 5%
500 µm (20 mils)	Yellow	+/- 5%

Non-Certified Plastic Shims

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 and PosiPen.

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PosiSoft® Suite of Software

Four FREE and unique ways to view and report your PosiTector and PosiTest data

PosiSoft Desktop — PC/Mac

Powerful desktop software for downloading, viewing, printing and storing measurement data. No internet connection required.

- Import readings directly from the gage via USB or from legacy PosiSoft desktop versions
- Synchronize measurement data including readings, notes and pictures to and from PosiSoft.net
- Import/Export Templates and Jobs to share with other users
- **NEW** Import PDF forms and overlay *Custom Fields* for automatic population of inspection and measurement data
- Report preview automatically refreshes as changes are made

PosiSoft.net — Web-based

A web-based application offering secure centralized management of readings. Access your data from any web-connected device.

- Synchronize data when connected via USB or WiFi
- Synchronize measurement data including readings, notes and pictures with PosiSoft Desktop and PosiTector App
- Securely store measurement data in the cloud and share with authorized users via a secure login

Jobs   Batches   Readings

PosiTector App — Mobile

Mobile app connects PosiTector Advanced instruments, the PosiTector SmartLink and the PosiTest AT-A to your *iOS* or *Android* smart device.

- Auto pairing Bluetooth BLE connection
- Automatically generate user-formatted reports and share via email, text, cloud storage services like Dropbox, and more
- Export readings to PosiSoft Desktop or synchronize readings to and from PosiSoft.net for further reporting and archival options

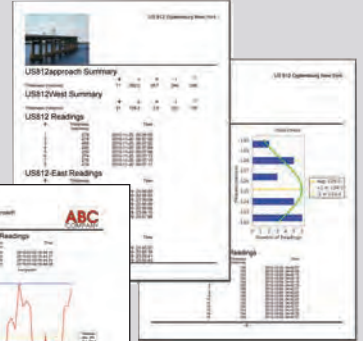### PosiSoft Custom PDF Report Generator

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
- Select the information to include for each product type – charts, histograms, readings, time stamps and more
- Compile multi-batch reports from one or more probes and instrument types
- Export readings as comma separated value (.CSV) files which can easily be imported into Excel and other supporting applications

Jobs feature consolidates batches into groups to keep measurement data organized and to quickly create multi-batch reports (not available on PosiTector App)

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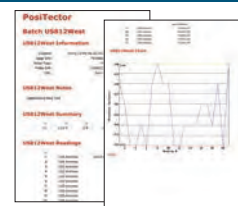
A simple gage interface to retrieve data in a manner similar to USB flash drives, cameras, or digital audio players. No software to install or internet connection required.

- View and print readings and graphs using universal PC/Mac web browsers and file explorers
- Measurement data can be printed quickly from a formatted HTML report or exported in .CSV format for further analysis in spreadsheets
- Simple file management - Copy and paste measurement data from the PosiTector to a local folder on your computer, network folder or cloud drive
- Access stored screen captures (snapshots) of the PosiTector display

DeFelsko®
The Measure of Quality

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Made in U.S.A.

DeFelsko Corporation, a U.S. manufacturer of coating thickness gages and inspection instruments, has been providing **Simple, Durable and Accurate** gages since 1965.

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®

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