

# PosiTector® 6000 Series

Coating Thickness Gages for **ALL** Metal Substrates



**DeFelsko®**  
The Measure of Quality



Available on the  
App Store



# PosiTector® 6000 Series

## All Gages Feature...

### Simple

- 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 universally accepts all PosiTector 6000, 200, RTR, SPG, DPM and UTG probes easily converting from a coating thickness gage to a surface profile gage, dew point meter or ultrasonic wall thickness gage
- Multiple calibration adjustment options including 1 point, 2 point, known thickness, average zero
- Selectable display languages
- Hi Contrast backlit display for bright or dark environments
- Flip Display enables right-side-up viewing
- Extended cables available (up to 75 m/250 ft) for remote measuring
- Uses alkaline or rechargeable batteries (built-in charger)

### Powerful

- Continually displays/updates average, standard deviation, min/max thickness and number of readings while measuring
- Screen Capture—save screen images for record keeping and review
- HiLo alarm audibly and visibly alerts when measurements exceed user-specified limits
- FAST mode—faster measurement speed for quick inspection
- USB port for fast, simple connection to a PC and to supply continuous power. USB cable included
- 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
- Software updates via internet keep your gage current
- Connects to PosiSoft.net (see far 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...**

- Monochrome display with transfective technology enhances sunlight readability
- Storage of 250 readings—stored readings can be viewed or downloaded

### Advanced Models

**Includes ALL features as shown on left plus...**

- Hi Contrast reversible color LCD
- Storage of 100,000 readings in up to 1,000 batches and sub-batches
- Onscreen help, real time graphing, picture prompting and more
- Batch annotation—add notes and change batch names with onscreen QWERTY keyboard
- WiFi technology wirelessly synchronizes with PosiSoft.net, downloads software updates and connects with mobile devices for expanded functionality
- Data transfer via USB to a PC or via Bluetooth® Wireless Technology to a PC or printer
- Scan mode—take continuous readings without lifting the probe
- Multiple stored calibration adjustments for measuring on a variety of substrate conditions
- SSPC-PA2 feature determines if film thickness over a large area conforms to user-specified min/max levels
- PSCP 90/10 feature determines if a coating system complies with an IMO performance standard for protective coatings

### NEW PosiTector SmartLink

- Wirelessly connect PosiTector 6000 probes to your smart device
- Turns your cell phone or tablet into a virtual PosiTector gage
- For a complete list of features visit [www.defelsko.com/SmartLink](http://www.defelsko.com/SmartLink)



### Select from a variety of measurement ranges and probe styles

(see back page ordering guide)

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



Separate Probe Style



Built-in Probe Style

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



FKS

90°

0°

45°

Regular

## Rugged Features...

Sealed USB Port  
for communicating  
with a PC or Mac

Water and dust  
resistant

**WEATHERPROOF**

Hi resolution color LCD

Scratch/solvent/impact  
resistant lens

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

All Regular Separate Probes  
are suitable for underwater use



Standard model shown in Statistics Mode with shock-absorbing, protective rubber holster



NEW! Xtreme Probe Series with Alumina wear face for rough or hot surfaces



Flip Display enables right-side-up viewing



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



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

**PosiSoft USB Drive** Connect to a PC/Mac using the supplied USB cable to access and print stored readings, graphs, photos, notes and screen captures. No software or internet connection required.



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



**PosiSoft Software** Newly updated version 3.0 desktop software for PC or Mac. Available as a free download.

**PosiSoft Mobile** Access readings, graphs, capture photos and update annotations using WiFi enabled devices such as tablets, smart phones and computers. (Advanced models only)



Available on the  
**App Store**



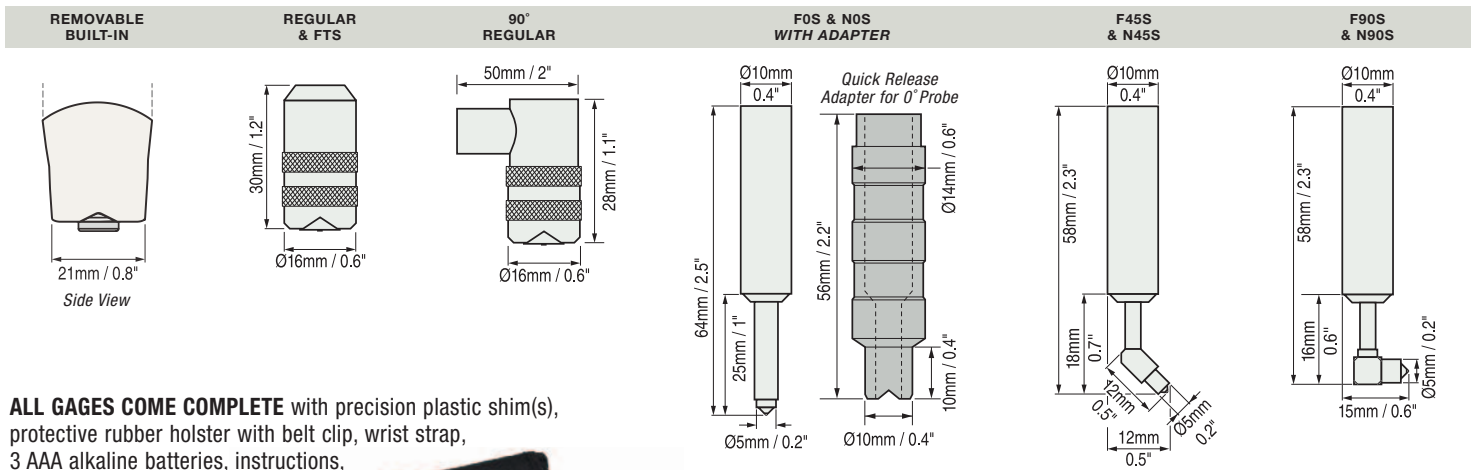
PosiTector bodies accept all 6000, 200, RTR, SPG, DPM and UTG probes



PosiTector® 6000 Series ORDERING GUIDE		Our most popular Removable Built-in and Regular Separate probe models				Ideal for anodized aluminum			Microprobes – Our smallest probes for small parts or hard-to-reach areas			Removable Built-in and Separate probes for thick protective coatings; epoxy, rubber, intumescent fireproofing and more			
FERROUS PROBES	Standard	F1	FS1	FXS1*	FRS1	FOS1	F45S1	F90S1	FT1	FTS1	FHXS1*	FKS1	FLS1		
	Advanced	F3	FS3	FXS3*	FRS3	FOS3	F45S3	F90S3	FT3	FTS3	FHXS3*	FKS3	FLS3		
NON-FERROUS PROBES	Standard	N1	NS1		NRS1	NAS1	NOS1	N45S1	N90S1			NKS1			
	Advanced	N3	NS3		NRS3	NAS3	NOS3	N45S3	N90S3			NKS3			
COMBINATION PROBES	Standard	FN1	FNS1		FNRS1					FNTS1				FNGS1**	
	Advanced	FN3	FNS3		FNRS3					FNTS3				FNGS3**	
Range		0–60 mils 0–1500µm				Ferrous: 0–45 mils and 0–1150µm Non-Ferrous: 0–25 mils and 0–625µm			0–250 mils 0–6 mm		0–400 mils 0–10,000µm	0–500 mils 0–13 mm	0–1.5 inches 0–38 mm	0–2.5 inches 0–63.5 mm	
Accuracy <sup>‡</sup>		±(0.05 mil+1%) 0–2 mils ±(0.1 mil+1%) >2 mils ±(1µm+1%) 0–50µm ±(2µm+1%) >50µm				±(0.02 mil+1%) 0–4 mils ±(0.1 mil+3%) >4 mils ±(0.5µm+1%) 0–100µm ±(2µm+3%) >100µm			±(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%)	±(1 mil+3%)	±(0.01 in.+3%) ±(0.2 mm+3%)		
Matching Defelko 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. **\*Xtreme probe series** with Alumina wear face. Ideal for rough or hot surfaces up to 250° C (500° F). **\*\*FNGS probe** measures non-conductive coatings on all metals. <sup>‡</sup>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.defelko.com/p6000/probes](http://www.defelko.com/p6000/probes))



**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.net account, 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 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

**Extended Cables** for under-water or remote measuring. Specify length when ordering.



**For a complete list of product features and available options visit [www.defelko.com](http://www.defelko.com)**

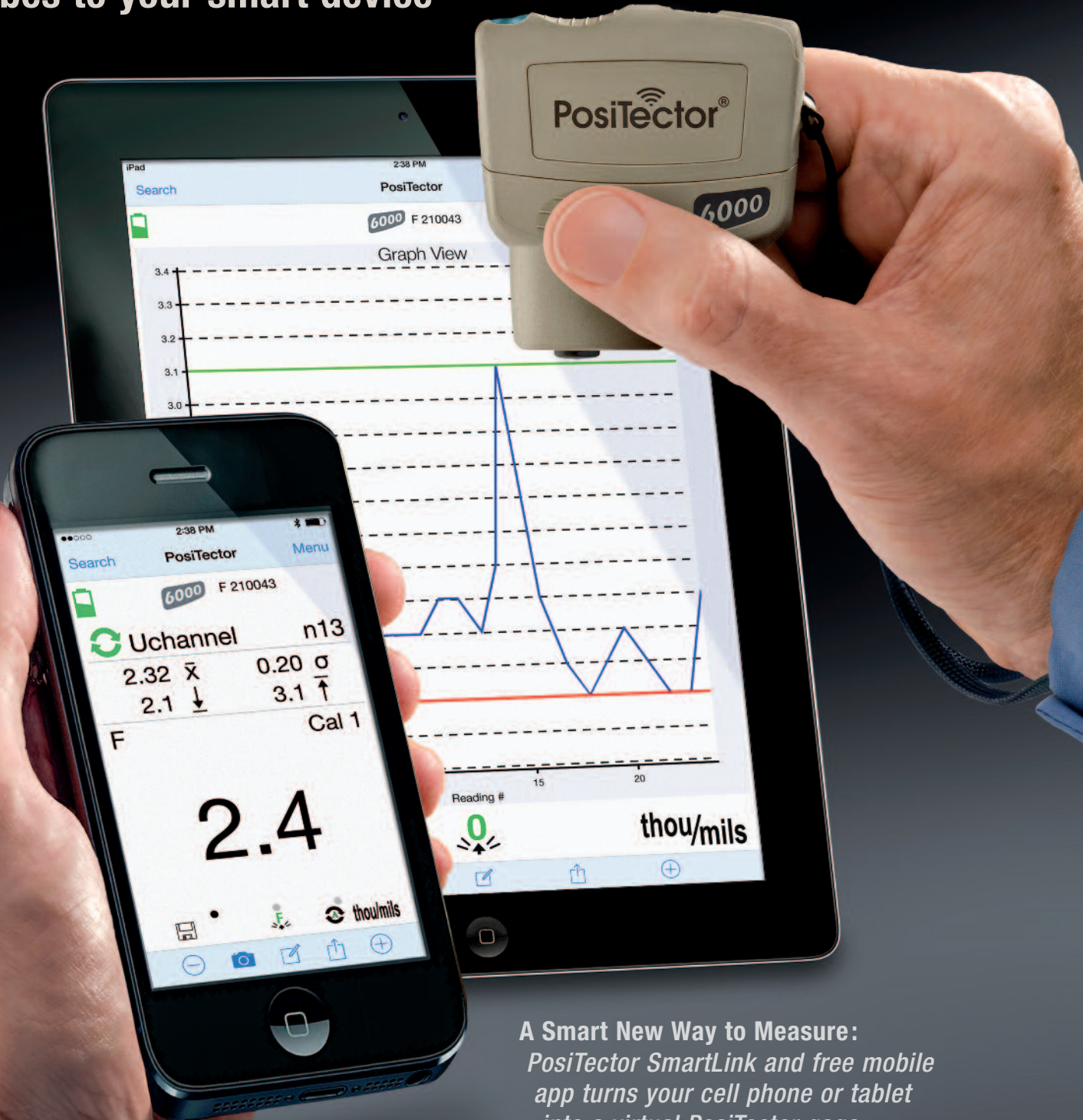


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# PosiTector<sup>®</sup> SmartLink

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*

 Android app coming soon

Made for  
  

**DeFelsko<sup>®</sup>**  
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 image library
- 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

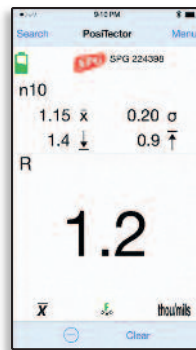
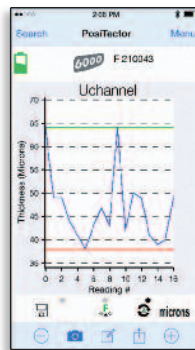
Share, backup, synchronize and report measurement data via email, apps and the cloud

- 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



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.



COMES COMPLETE with SmartLink, free PosiTector App, AAA battery, wrist strap, instructions, two (2) year warranty. Probes purchased separately.



Coating Thickness



Surface Profile



Surface Profile



Environmental Conditions

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



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# 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



A1 Non-Ferrous



Individual plates are available



P1 Polystyrene

Order Code	Ideal for	Approximate Thickness				Coating/Substrate	Accuracy
		Plate 1	Plate 2	Plate 3	Plate 4		
S1	PosiTector 6000 F, FS, FRS, 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, NOS, N45S, N90S PosiTest DFT Combo	0	75 µm 3 mils	250 µm 10 mils	500 µm 20 mils		
A3	PosiTector 100B, 200, 200B	75 µm 3 mils	125 µm 5 mils	250 µm 10 mils	500 µm 20 mils		
P1	PosiTector 6000 FT, FTS, NTS, FNFS 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 100C	375 µm 15 mils	1.5 mm 60 mils	2.5 mm 100 mils	4.5 mm 185 mils		
P4	PosiTector 100D	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 200C	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, FNFS	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.



# DeFelsko Plastic Shims

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

## Certified Plastic Shims

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



Certified Plastic Shims



Steel and aluminum zero plates are available

Order Code	Approximate Thickness	Color	Accuracy
CS1	25 $\mu\text{m}$ (1 mil)	Orange	+/- 2 $\mu\text{m}$ (+/- 0.08 mils)
CS2	50 $\mu\text{m}$ (2 mils)	Red	
CS3	75 $\mu\text{m}$ (3 mils)	Green	
CS5	125 $\mu\text{m}$ (5 mils)	Blue	
CS10	250 $\mu\text{m}$ (10 mils)	Brown	
CS20	500 $\mu\text{m}$ (20 mils)	Yellow	
CS40	1000 $\mu\text{m}$ (40 mils)	White	
CS60	1500 $\mu\text{m}$ (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 $\mu\text{m}$ (1 mil)	Orange	+/- 20%
50 $\mu\text{m}$ (2 mils)	Red	+/- 10%
125 $\mu\text{m}$ (5 mils)	Blue	+/- 5%
250 $\mu\text{m}$ (10 mils)	Brown	+/- 5%
500 $\mu\text{m}$ (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.



# PosiSoft® Solutions

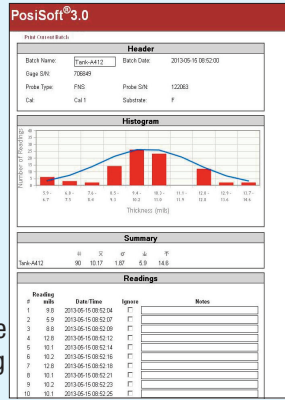
## Suite of Software

The PosiSoft suite of software solutions offers 4 FREE ways to view and report your data, ranging from dedicated desktop software for PC and Mac computers to cloud-based PosiSoft.net.

### PosiSoft® 3.0 Desktop Software

Newly updated version 3.0 desktop software for PC or Mac computers

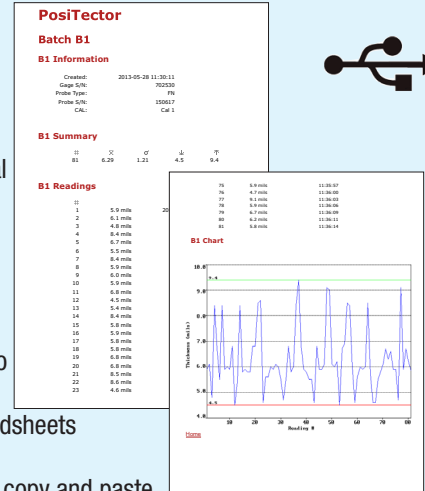
- Import (download) measurement data via USB (all gages) or WiFi (PosiTensor Advanced models only)
- Customize reports by adding pictures, logos, screen captures, notes and more
- Measurement data is copied (imported) from the instrument to a user selectable location — ideal for storing and sharing data on a network or cloud-drive
- Create custom layouts using a simple drag and drop Template Design toolbox; save layouts for future use
- Downloaded data is stored in comma-separated text files which can easily be imported into supporting applications such as documents, spreadsheets and databases



### PosiSoft® USB Drive

Access your PosiTensor as a flash drive

- View and print readings and graphs using universal PC/Mac web browsers or file explorers
- Measurement data is stored in comma-separated text files which can easily be imported into supporting applications such as documents, spreadsheets and databases
- Simple file management - copy and paste data from the PosiTensor to a local folder on your computer, network or cloud-drive

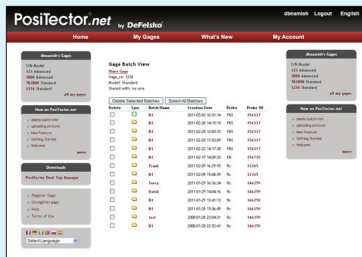


Preformatted HTML reports are stored in the gage.

### PosiSoft®.net (formerly PosiTensor.net)

A cloud-based application offering secure centralized management of PosiTensor readings. Access your data from any web-connected device anywhere in the world.

- Synchronize measurement data when connected via USB, Bluetooth or WiFi wireless technology
- Generate reports with graphs, annotations and images
- Share measurement data with authorized users via a secure login from any computer or web-enabled device
- Export data to popular formats such as XML, .CSV (comma-separated values), and CQATK for further analysis



- Securely stores data in the cloud
- Synchronize images and batch notes to your PosiTensor
- Compatible with PosiTensor SPG/DPM/6000/200/UTG Standard & Advanced instruments
- Internet connection required

### PosiSoft® Mobile

Gage-based software application featured in all PosiTensor Advanced instruments. Access readings, graphs, capture photos and update notations using WiFi enabled devices such as tablets, smart phones and computers



- Browse stored measurement data including notes, images, statistics and charts
- Update batch names/notes using your mobile device's keyboard
- Insert images directly into gage batches using your mobile device's camera or image library
- Remotely view the live display of a working PosiTensor
- Email data as PDF reports or .CSV comma-separated text files
- Accessible from any WiFi enabled computer or smart device using a standard web browser including PC/Mac, Windows Phone/Mobile, Blackberry, Android, Apple iOS and more

**PosiSoft Mobile Manager** is a discovery tool that searches your local area WiFi network for WiFi enabled PosiTensor Advanced instruments.

- Available for *Apple iOS* and *Android* users



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