PosiTector® SPG Series

Surface Profile Gages for blasted steel, textured coatings and concrete







***NEW** surface profile probe for outside diameters*

DeFelsko®
The Measure of Quality

Bluetooth® WiFi Available on the App Store

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 accepts all PosiTector SPG, RTR ,6000, 200, DPM, SST, SHD, BHI 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 into 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



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.

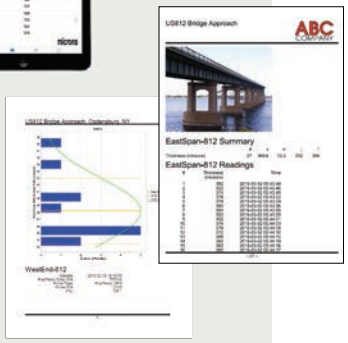
PosiSoft.net
A web-based application offering secure centralized management of readings. Includes customizable, templated PDF Report Generator. Access your data from any web-connected device.



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.



Select from Five Models

for Blasted Steel

Ideal for measuring the surface profile of steel cleaned by abrasive blast



PosiTector SPG
with integral probe shown

Integral Probe — SPG

Integral probe ideal for one-handed operation



PosiTector SPGS
with cabled probe shown

Cabled Probe — SPGS

Probe mounted on a 1m/3ft cable for enhanced ergonomics and access to hard-to-reach areas

Range		0–500 µm 0–20 mils
Accuracy		±(5 µm + 5%) ±(0.2 mils + 5%)
Tip	**Angle**	60°*
	Radius	50 µm (2 mils)

30° tips available *for conformance to Australian standard AS 3894.5-C*

Cabled Probe for Convex Surfaces — SPGOS

Probe mounted on a 1m/3ft cable with a V-groove sleeve ideal for measuring convex surfaces such as tanks and pipes

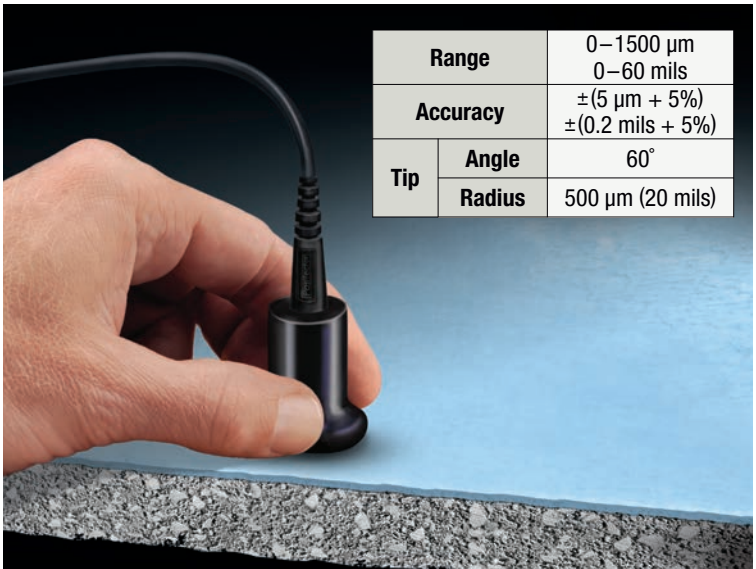
- Ideal for measuring on flat and curved surfaces with an OD greater than 3mm (0.125")
- Proprietary OD Mode analyzes multiple measurements for greater accuracy on convex surfaces
- Normal Mode is ideal for flat surfaces, and operates similarly to the PosiTector SPG and SPGS probes
- Self-leveling probe foot ensures perpendicularity to the part being measured
- Uses the proven V-groove design found on PosiTector 6000 coating thickness probes to stabilize the probe on any diameter
- Available Large V-groove Adaptor for enhanced stability on 30-45cm (12-18") OD pipes



for Textured Coatings

Cabled Probe for Textured Coatings — SPGCS

Ideal for measuring the surface profile of textured coatings and other surface profile applications

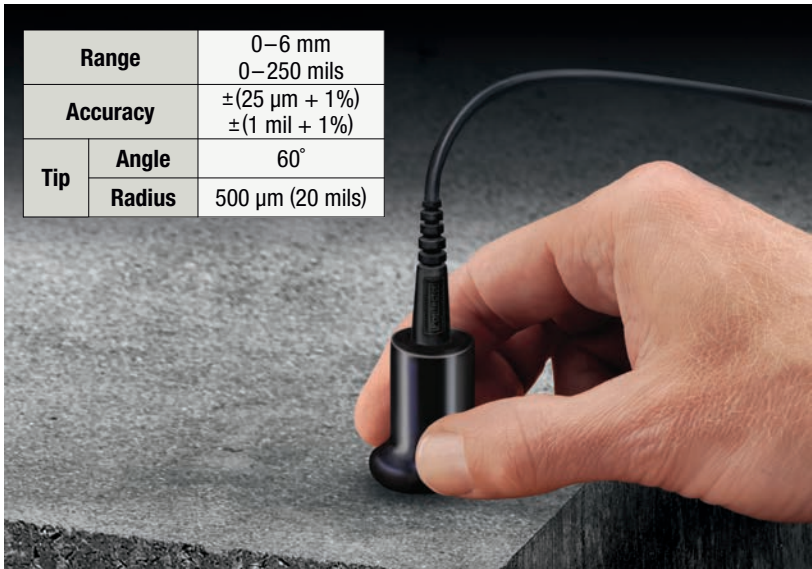


Range		0–1500 µm 0–60 mils
Accuracy		±(5 µm + 5%) ±(0.2 mils + 5%)
Tip	**Angle**	60°
	Radius	500 µm (20 mils)

for Concrete Profile

Cabled Probe for Concrete Profile — SPGTS

Ideal for measuring the surface profile of concrete created by blasting, scarifying, grinding, acid etching and more



Range		0–6 mm 0–250 mils
Accuracy		±(25 µm + 1%) ±(1 mil + 1%)
Tip	**Angle**	60°
	Radius	500 µm (20 mils)

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

Integral Probe shown

Alumina wear face and tungsten carbide tip for long life and continuous accuracy



All probes feature a durable Alumina wear face and tungsten carbide tip for long life and continuous accuracy. Cabled (SPGS) probe shown.

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					
Application	**Blasted Steel**		**Convex Surfaces**	**Textured Coatings**	**Concrete Surface Profile**
Probe Type	**Integral**	**Cabled**			
Standard	SPG 1	SPG S1	SPG OS1	SPG CS1	SPG TS1
Advanced	SPG 3	SPG S3	SPG OS3	SPG CS3	SPG TS3
Probe Only	PRBSPG	PRBSPGS	PRBSPGOS	PRBSPGCS	PRBSPGTS

Options

Certified SPG Standards
to verify the accuracy and operation of surface profile depth micrometers — an important component in fulfilling both ISO and in-house quality control requirements.

- Ideal for use in calibration labs
- Standards consist of 4 sapphire test plates mounted in a precision ground steel base and supplied in a hard shell case
- Sapphire test plates are individually serialized for traceability to PTB — includes a Certificate of Calibration
- Certified and labeled in both Metric and Imperial units



Order Code	Approximate Depth				Accuracy
	Plate 1	Plate 2	Plate 3	Plate 4	
STDSPG	0	50 µm (2 mils)	175 µm (7 mils)	500 µm (20 mils)	± 1.25 µm (± 0.05 mils)

COMES COMPLETE with a precision ground steel base, 4 sapphire test plates, sample certificate of accuracy, hard shell carrying case and a Certificate of Calibration traceable to PTB.

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.



Large V-groove Adaptor
for enhanced stability on 30-45cm (12-18") OD pipes (for SPGOS only)

Replacement Non-Certified Metal Check Shim and Glass Zero Plate
provides a quick accuracy check of the instrument and allows the user to perform practice measurements

Replacement Tungsten Carbide Probe Tips
two angles available — 60° or 30°, field replaceable

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

© 2019 DeFelsko Corporation USA. All Rights Reserved. Technical Data subject to change without notice. Printed in USA. PSPG.v.LW-W1906

DeFelsko® Inspection Instruments
DeFelsko Corporation • 800 Proctor Ave. • Ogdensburg, New York 13669-2205 USA
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.