

CATALOG

COATING THICKNESS & INSPECTION INSTRUMENTS

COATING THICKNESS - ENVIRONMENTAL CONDITIONS -
SURFACE PROFILE DUST/SALT CONTAMINATION -
HARDNESS GLOSS - ULTRASONIC WALL THICKNESS -
ADHESION - PINHOLE/HOLIDAY

MEASUREMENT GAGES



SURFACE PROFILE



PINHOLE HOLIDAY



COATINGS ON METALS POSITECTOR® 6000

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



VARIETY OF MEASUREMENT RANGES AND PROBE STYLES

| | Our most popular Integral and Coated probe models | R7 Regular probe for light coats | Ideal for duplex coating systems | Ideal for hot and rugged applications | Ideal for stainless/aluminum | Microprobes - Our smallest probes for small parts or hard-to-reach areas |
|---|---|--|----------------------------------|---------------------------------------|------------------------------|---|
| Probes | Standard F1, F5, F831 | | | FX51 | F81, F451, F851, F8651 | |
| | Advanced F2, F3, F833 | | | FX53 | F83, F453, F853, F8653 | |
| Non-Ferrous | Standard N1, N51, N831 | | | | NA1, NA51, NA831, NA851 | |
| | Advanced N3, N63, N833 | | | | NA3, NA63, NA833, NA853 | |
| Conductivity (non-ferrous) | Standard FN1, FN51, FN831, FN851 | | | | | |
| | Advanced FN3, FN63, FN833, FN853 | | | | | |
| Range | 0-60 mils 0-1500 µm | | | 0-80 mils 0-2000 µm | | Ferrous: 0-45 mils and 0-1150 µm Non-Ferrous: 0-25 mils and 0-625 µm |
| Accuracy* | | +0.05 mil + 1% 0-2 mils +0.1 mil + 1% >2 mils | | | | +0.02 mil + 1% 0-4 mils +0.1 mil + 2% >4 mils +0.5 µm + 1% 0-100 µm +2 µm + 3% >100 µm |
| Matching Software/Customizable Hardware | | STD01 STD41 | | STD54 | | STD32 STD42 |



Duplex Probe measures individual layer thicknesses of zinc and paint in a duplex coating system

Xtreme Probes with Alumina wear faces & braided cables for hot/rough surfaces

Thick Probes series for thick protective coatings: epoxy, rubber, fireproofing & more

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

POSITEST® DFT

2 Models Available:

- **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.



Specifications

| Measurement Range | 0 - 40 mils | 0 - 1000 µm |
|-------------------|--|---------------|
| Accuracy | ± (0.1 mils + 3%) | ± (2 µm + 3%) |
| Size | 108 x 43 x 20 mm (4.25" x 1.7" x 0.8") | |
| Weight | 54 g (1.9 oz.) without batteries | |

POSITEST® PG

Paint Inspection Gauge measures the thickness of one or multiple layers of coating on any rigid substrate using a proven destructive technique.

PosiTEST® PG large field of view provides a comfortable eye distance with or without glasses



Conversion Chart

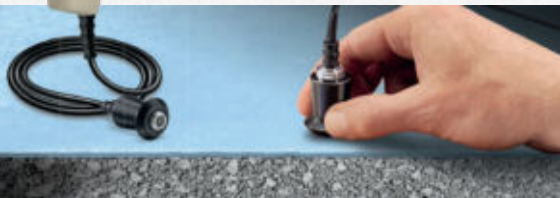
| Cutting Tip | Conversion Factor | Coating Thickness Range | |
|-------------|-------------------|-------------------------|-------------|
| | | Microns | Mils |
| 1x | 1 | 0 - 1,250 µm | 0 - 50 mils |
| 2x | 0.5 | 0 - 625 µm | 0 - 25 mils |
| 5x | 0.2 | 0 - 250 µm | 0 - 10 mils |
| 10x | 0.1 | 0 - 125 µm | 0 - 5 mils |

COATINGS ON NON METALS POSITECTOR® 200

Ultrasonic Paint Thickness Meters for Non-Metal Substrates.

Select from a variety of measurement ranges

| Probes | 200B | 200C | 200D |
|--------------------------------|---|--|--|
| Typical Applications | Polymer coatings on wood, plastic | Coatings on concrete, fiberglass | Thick, soft coatings such as polyurea, asphaltic neoprene, very thick polymers |
| Measurement Range | 13 – 1,000 μm 0.5 – 40 mils | 50 – 3,800 μm 2 – 150 mils | 50 – 7,600 μm 2 – 300 mils |
| Accuracy | + (2 μm + 3% of reading) + (0.1 mils + 3% of reading) | | + (20 μm + 3% of reading) + (1 mil + 3% of reading) |
| Minimum Layer Thickness | 13 μm 0.5 mils | 50 μm 2 mils | 500 μm 20 mils |



COATINGS ON STEEL POSITEST®

Magnetic Paint Mil Gauge for Non-Magnetic Coatings on Steel.



POSIPEN®

Pen-type Magnetic Pull-Off Paint Thickness Gage.



WALL THICKNESS POSITECTOR® UTG



PosiTector UTG C Series
For measuring thickness on corroded surfaces.



PosiTector UTG M Series
for measuring metal thickness without removing coatings.

WET FILM THICKNESS ON ALL SUBSTRATES

Certified Stainless 8-Sided
Stainless 6-Sided | Aluminum 4-Sided



POWDER THICKNESS POSITEST® PC

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



| Specifications | |
|---------------------------------------|---------------------------------------|
| Range* | 20 – 100 μm (0.8–4.0 mils) |
| Resolution | 1 μm (0.1 mil) |
| Accuracy | $\pm 5 \mu\text{m}$ (± 0.2 mil) |
| Measurement Time | 1–3 seconds |
| Measurement Distance to Powder | 19 mm (0.75 inch) |
| Measurement Area | 2 mm (0.08 inch) |



PosiTector UTG CLF
For cast metals, using low-frequency for attenuative materials.



PosiTector UTG P
High-precision gauge for thin metals and plastics.

TESTEX®

Measures the surface profile on metal surfaces.

Testex Press-O-Film® Replica Tape

Select from a wide variety of conventional and optical grade tapes.



Micrometer Thickness Gauges

Two models available:

- Testex Digital Micrometer
- Testex Analog Dial Micrometer



POSITECTOR® RTR H

Measures peak height using replica tape.

Peak Height (HL) Specification

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



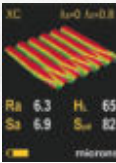
PosiTector® RTR H

POSITECTOR® RTR 3D

Measures & records 2D/3D surface profile parameters.

2D Parameters – ‘R’ – Profile Parameters

- Ra** Roughness average
- Rq** Root mean square roughness
- Rp** Maximum profile peak height
- Rv** Maximum profile valley depth
- Rt** Total profile height
- Rz** Average maximum height of the profile
- Rpc** Peak count per unit length



POSITECTOR® SPG

Surface profile gauges for blasted steel, textured coatings, and concrete surfaces.

5 Models Available:

- SPG for Blasted steel (integral probe)
- SPG S for Blasted steel (cabled probe)
- SPG OS for Convex surfaces
- SPG CS for Textured coatings
- SPG TS for Concrete profiles



PosiTector® SPG



PosiTector® RTR 3D

3D Parameters – ‘S’ – Height/Amplitude

- H** Average maximum peak-to-valley height
- Sa** Average roughness
- Sq** Root mean square roughness
- Sz** Maximum area peak-to-valley height
- Sp** Maximum area peak height
- Sv** Maximum valley depth
- Spd** Areal peak density

ISO SURFACE ROUGHNESS COMPARATORS

Durable, portable tools for quick visual and tactile assessment of abrasive blast profiles (ISO 8503-1 & 8503-2).

| Name/Description | Order Code | Range |
|------------------|------------|---------------------|
| Grit Blast | SRCMICGRIT | 25, 60, 100, 150 µm |
| Shot Blast | SRCMICSHOT | 25, 40, 70, 100 µm |



POSITECTOR® SST

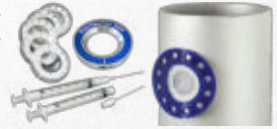
Soluble Salt Testers measure the concentration of soluble salts (salt contamination) on metal surfaces in accordance with ISO 8502-6 and 8502-9.



INNOVATIVE POSIPATCH™

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

- No adhesive residue
- No sharps, no needles!



DEFELSKO ADHESIVE PATCH



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* | 1-3 seconds |

HARDNESS

POSITECTOR® SHD

Shore Hardness Durometers measure the hardness of plastics, rubbers, thick coatings, and other non-metallic materials. Two models – Shore A and Shore D.



POSITECTOR® BHI

Barcol hardness tester for soft metals (aluminum, copper) and hard plastics, including fiber-reinforced materials.



ENVIRONMENTAL CONDITIONS

POSITECTOR® DPM

Measures climatic conditions (humidity, air/surface temperatures, dew point) essential for surface preparation as required by ISO 8502-4.

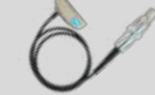
PosiSector DPM IR Integral Probe with Infrared Surface Temperature Sensor



PosiSector DPM A Integral Probe with Wind Speed Sensor



PosiSector DPM D Cabled Probe with 1/2" NPT Threads



PosiSector DPM S Integral Probe with Cabled Surface Temperature Sensor



PosiSector DPM Integral Probe with Direct Contact Surface Temperature Sensor

POSITECTOR® DPM L

Dew Point Meter Loggers measure and record environmental parameters independently for up to 200 days (DPM L) or 600 days (DPM L+).



POSITECTOR® IRT

Non-contact infrared thermometer for measuring surface temperature remotely. Offering selectable emissivity and a laser pointer for accurate targeting.



POSITEST® AT

Measures the adhesion of coatings to rigid substrates (metal, concrete, wood) using a pull-off test.

2 Models Available:

- Automatic (AT-A)
- Manual (AT-M)



POSITEST® CH

Determines the coating's resistance to separation from the substrate via a lattice pattern cut, conforming to ISO 2409 & ASTM D3359.

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* | 1-3 seconds |



PINHOLE/HOLIDAY DETECTION

POSITEST® HHD SERIES

High voltage holiday detectors.



POSITEST® HHD STICK TYPE

Detects holidays using pulsed DC.



POSITEST® HHD C WAND STYLE

Detects holidays using continuous DC.



| Comparison Chart | HHDKIT | HHDKITB | HHDCKIT | |
|--|--------------------------------|---------|-------------|---------|
| DC Output | Pulsed | | Continuous | |
| Output Voltage Range | 0.5 - 35 kV | | 0.5 - 30 kV | |
| Output Accuracy | ±5% | | | |
| Power Supply | Removable, rechargeable Li-ion | | | |
| Typical Battery Life for selected rolling springs @10kV | Ø 12" | 40 hrs. | 16 hrs. | 16 hrs. |
| | Ø 40" | 30 hrs. | 12 hrs. | 12 hrs. |
| Operating Temperature | -20° to 60°C -4° to 140°F | | | |

POSITEST® LPD

Low voltage pinhole detector for metal and concrete substrates.



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

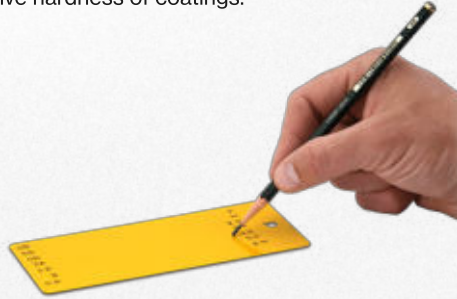
POSITEST® DT

Dust Tape Tests assess the quantity and size of dust particles on blast cleaned surfaces in accordance with ISO 8502-3.



POSITEST® PT

Pencil Hardness Tests, also known as Wolff-Wilborn Tests, determine the scratch resistance and relative hardness of coatings.



POSITECTOR® SMARTLINK

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



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



GLOSS

POSITECTOR® GLS

Portable gloss meter for gloss, reflectance, and haze on any surface.

3 Models Available:


- PosiTector GLS 60°
- PosiTector GLS 20°/60°
- PosiTector GLS 20°/60°/85°



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 www.lfc.co.id



telephone **(0778) 408 6403**

e-mail **sales@lfc.co.id**

whatsapp **+62 815 3611 0114**

Kawasan Industri Tunas Bizpark 11F Batam,
Kepulauan Riau, 29464