



TQC Probes for PosiTector 6000 Ferro & Non-Ferro

Probes for PosiTector 6000

A wide range of high-performance probes designed for use with the PosiTector 6000 coating thickness gauge. Suitable for both ferrous and non-ferrous substrates, including specialized probes for duplex coatings and extreme conditions.

The TQC Sheen Probes for the PosiTector 6000 series offer a versatile and robust solution for measuring coating thickness across a wide variety of metal substrates. Whether you need to measure a few microns of paint or several millimeters of protective coating, there is a probe in this range to suit your application. With options for ferrous, non-ferrous, and combined (FN) materials, these probes work in combination with the PosiTector 6000 to help ensure consistent coating quality and compliance with industry standards.

Why Coating Thickness Testing Matters

Accurate coating thickness measurement is critical in industries where performance, longevity, and regulatory compliance are essential. An under-applied coating can lead to premature corrosion or product failure, while an overly thick layer may result in unnecessary material costs or mechanical issues. By using the appropriate probe for your substrate and coating type, you can verify application quality, optimize production processes, and extend the service life of your products.

How to Choose the Right Probe for Your Application:

1. Identify your substrate material

1. Choose F for ferrous (steel, iron)
2. Choose N for non-ferrous (aluminum, copper, etc.)
3. Choose FN for dual (ferrous/non-ferrous/unknown)
4. Choose FNDS for duplex coatings

2. Determine the coating thickness range

1. Standard: Up to 60 mils (1500 μm)
2. High-range: Up to 500 mils (13 mm) or more
3. Select a probe that matches or exceeds your maximum expected thickness

Technical Specification:

F, N, FN, and FNDS Probes	Range from 0–1500 μm to 63.5 mm
FNDS Duplex Coating Probe	Measures individual paint and zinc layers in one reading
High-Temp Probes	Up to 10,000 μm and 250 °C (FHXS and FXS series)
Probe Types	Straight, 90° angle, mini, built-in, and removable
Cable Length	Standard 82 cm, extendable up to 75 m
Accuracy (Standard Probes)	$\pm(1 \mu\text{m} + 1\%)$ for 0–50 μm $\pm(2 \mu\text{m} + 1\%)$ for >50 μm
Accuracy (Thick Coating Probes)	$\pm(0.01 \text{ mm} + 1\%)$ for 0–2.5 mm $\pm(0.01 \text{ mm} + 3\%)$ for >2.5 mm
Accuracy (Ultra-Thick Coatings)	$\pm(0.2 \text{ mm} + 3\%)$ for 0–63.5 mm

3. Consider the measurement environment

1. Integral probes are compact and ideal for tight or mobile use
2. Cabled probes provide flexibility for hard-to-reach areas
3. Xtreme™ probes are built for harsh or high-temperature conditions

4. Account for part geometry and accessibility

1. Use angled probes (0°, 45°, 90°) for curved or confined surfaces High-range: Up to 500 mils (13 mm) or more
2. Microprobes are ideal for small or precision-critical areas
3. Extended-length cables are available for large structures or remote access

SKU	Probe Model	Substrate	Probe Style	Measuring Range
LD6025	F	Ferrous	Integral	0 - 60 mils (0 - 1500 µm)
LD6099	FS	Ferrous	Regular Cabled	0 - 60 mils (0 - 1500 µm)
LD6021	FXS Xtreme	Ferrous	Regular Cabled	0 - 80 mils (0 - 2000 µm)
LD6017	FRS	Ferrous	90° Regular Cabled	0 - 60 mils (0 - 1500 µm)
LD6100	F0S	Ferrous	0° Microprobe	0 - 45 mils (0 - 1150 µm)
LD6101	F45S	Ferrous	45° Microprobe	0 - 45 mils (0 - 1150 µm)
LD6102	F90S	Ferrous	90° Microprobe	0 - 45 mils (0 - 1150 µm)
LD6026	FT	Ferrous	Integral	0 - 250 mils (0 - 6 mm)
LD6018	FTS	Ferrous	High-Range Cabled	0 - 250 mils (0 - 6 mm)
LD6014	FHXS Xtreme	Ferrous	High-Range Cabled	0 - 400 mils (0 - 10000 µm)
LD6020	FKS	Ferrous	High-Range Cabled	0 - 500 mils (0 - 13 mm)
LD6027	N	Non-ferrous	Integral	0 - 60 mils (0 - 1500 µm)
LD6104	NS	Non-ferrous	Regular Cabled	0 - 60 mils (0 - 1500 µm)
LD6019	NRS	Non-ferrous	90° Regular Cabled	0 - 60 mils (0 - 1500 µm)
LD6105	NAS	Non-ferrous	Regular Cabled	0 - 25 mils (0 - 625 µm)
LD6106	N0S	Non-ferrous	0° Microprobe	0 - 25 mils (0 - 625 µm)
LD6107	N45S	Non-ferrous	45° Microprobe	0 - 25 mils (0 - 625 µm)
LD6108	N90S	Non-ferrous	90° Microprobe	0 - 25 mils (0 - 625 µm)
LD6024	NKS	Non-ferrous	High-Range Cabled	0 - 500 mils (0 - 13 mm)
LD6028	FN	Ferrous / Non-ferrous	Integral	0 - 60 mils (0 - 1500 µm)
LD6109	FNS	Ferrous / Non-ferrous	Regular Cabled	0 - 60 mils (0 - 1500 µm)
LD6022	FNRS	Ferrous / Non-ferrous	90° Regular Cabled	0 - 60 mils (0 - 1500 µm)
LD6013	FNDS (Duplex)	Ferrous / Non-ferrous	Regular Cabled	0 - 60 mils (0 - 1500 µm)
LD6023	FNTS	Ferrous / Non-ferrous	High-Range Cabled	0 - 250 mils (0 - 6 mm)
LD6034	FNGS	Ferrous / Non-ferrous	High-Range Cabled	0 - 2.5 inches (0 - 63.5 mm)

How to Use

These probes are designed for seamless integration with the PosiTector 6000 coating thickness gauge. Simply connect the appropriate probe—either built-in or separate—to your PosiTector gauge or SmartLink device. Place the ruby-tipped probe on the coated surface to take an instant, non-destructive measurement. The probe automatically compensates for substrate type and curvature, ensuring precise results even on irregular or complex surfaces.

Selecting the right probe depends on your specific use case. Begin by identifying the substrate material (ferrous, non-ferrous, or both) and the expected coating thickness range. Consider the shape and accessibility of the test surface—tight areas or unusual geometries may require an angled or mini probe. For high-temperature environments or thick coatings, specialized probes such as the FHXS or FKS series are available.

Smart Connectivity and Flexibility

Each probe is compatible with the PosiTector SmartLink, a wireless device that connects to your smartphone or tablet via Bluetooth. With the free PosiTector app, users can record, store, and share measurement data instantly—turning the probe and your mobile device into a fully functional digital gauge. This flexibility is especially useful for fieldwork, inspections in tight spaces, and applications that require remote data logging or documentation.

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Features & Benefits:

- Durable, ruby-tipped sensors for long-term precision
- Interchangeable probes for maximum flexibility
- Wide range of sizes and styles for varied applications
- Wireless compatibility via PosiTector SmartLink
- Specialized duplex coating probe available
- Built-in and cabled versions accommodate different measurement angles and geometries
- Extendable cable length up to 75 meters for large or hard-to-reach surfaces
- Ideal for standard coatings and extreme conditions alike
- Strong, wear-resistant ruby-tipped sensors for long-term durability
- Compatible with ferrous, non-ferrous, and duplex substrates
- Wide measurement ranges available: up to 63.5 mm (2.5 inches)
- Straight, angled, mini, and built-in probe designs for different geometries
- Probes automatically recognize and retain calibration settings
- Seamless probe interchangeability without recalibration
- Extended cable lengths available – ideal for remote or underwater testing
- Heavy-duty, gold-plated locking connector ensures reliable use in industrial environments
- Certificate of Calibration (Long Form) traceable to NIST or PTB included with each probe
- One year probe warranty for added peace of mind

Ordering Information:

Article Number

Article Description

Probes for PosiTector 6000

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