



POSITECTOR 6000 - PROBE DETAILS

Select from a variety of measurement ranges and probe styles

The PosiTector 6000 consists of a body and a probe. A wide selection of interchangeable probes are available. All bodies accept all probes.



- Two (2) year probe warranty
- Heavy-duty, gold-plated locking connector for industrial environments
- Certificate of Calibration (Long Form) traceable to NIST or PTB included with every probe
- Each probe retains its own unique calibration information (allowing full probe interchangeability)
- Extended cables available for underwater or remote measuring. Specify length when ordering
- Probes are PosiTector SmartLink compatible - wirelessly connect PosiTector 6000 probes to your smart device



Probe Ordering Guide:

F - for ferrous metals (steel and cast iron)

N - for non-ferrous metals (aluminum, copper, titanium, etc.)

FN - for all metal substrates - Automatically recognizes the substrate and takes a measurement



Probe Model	Substrates	Probe Style	Measuring Range
<u>F</u>	ferrous	integral	0 - 60 mils (0 - 1500 µm)
<u>FS</u>	ferrous	regular cabled	0 - 60 mils (0 - 1500 µm)
<u>FXS Xtreme™</u>	ferrous	regular cabled	0 - 80 mils (0 - 2000 µm)
<u>FRS</u>	ferrous	90° regular cabled	0 - 60 mils (0 - 1500 µm)
<u>F0S</u>	ferrous	0° microprobe	0 - 45 mils (0 - 1150 µm)
<u>F45S</u>	ferrous	45° microprobe	0 - 45 mils (0 - 1150 µm)
<u>F90S</u>	ferrous	90° microprobe	0 - 45 mils (0 - 1150 µm)
<u>F90ES</u>	ferrous	90° extended microprobe	0 - 45 mils (0 - 1150 µm)
<u>FT</u>	ferrous	integral	0 - 250 mils (0 - 6 mm)
<u>FTS</u>	ferrous	high-range cabled	0 - 250 mils (0 - 6 mm)
<u>FTRS</u>	ferrous	90° high-range cabled	0 - 250 mils (0 - 6 mm)
<u>FHXS Xtreme™</u>	ferrous	high-range cabled	0 - 400 mils (0 - 10000 µm)
<u>FKS</u>	ferrous	high-range cabled	0 - 500 mils (0 - 13 mm)
<u>FJS</u>	ferrous	high-range cabled	0 - 1.0 inch (0 - 24 mm)
<u>FLS</u>	ferrous	high-range cabled	0 - 1.5 inches (0 - 38 mm)
<u>N</u>	non-ferrous	integral	0 - 60 mils (0 - 1500 µm)
<u>NS</u>	non-ferrous	regular cabled	0 - 60 mils (0 - 1500 µm)
<u>NRS</u>	non-ferrous	90° regular cabled	0 - 60 mils (0 - 1500 µm)
<u>NAS</u>	non-ferrous	regular cabled	0 - 25 mils (0 - 625 µm)
<u>N0S</u>	non-ferrous	0° microprobe	0 - 25 mils (0 - 625 µm)
<u>N45S</u>	non-ferrous	45° microprobe	0 - 25 mils (0 - 625 µm)
<u>N90S</u>	non-ferrous	90° microprobe	0 - 25 mils (0 - 625 µm)
<u>NKS</u>	non-ferrous	high-range cabled	0 - 500 mils (0 - 13 mm)
<u>FN</u>	ferrous / non-ferrous	integral	0 - 60 mils (0 - 1500 µm)
<u>FNS</u>	ferrous / non-ferrous	regular cabled	0 - 60 mils (0 - 1500 µm)
<u>FNRS</u>	ferrous / non-ferrous	90° regular cabled	0 - 60 mils (0 - 1500 µm)



<u>FNDS (duplex)</u>	ferrous / non-ferrous	regular cabled	0 - 60 mils (0 - 1500 µm)
<u>FNTS</u>	ferrous / non-ferrous	high-range cabled	0 - 250 mils (0 - 6 mm)
<u>FNGS</u>	ferrous / non-ferrous	high-range cabled	0 - 2.5 inches (0 - 63.5 mm)

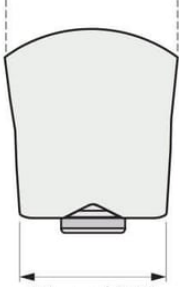
Integral Probes



F, N, FN, FT

Ideal for one-handed operation



Removeable Integral Probe	Probe Model:	F	N	FN	FT
 21mm / 0.8" Side View	Range:	0 - 60 mils			0 - 250 mils
		0 - 1500 μ m			0 - 6 mm 0 - 6000 μ m
	*Accuracy:	$\pm$ (0.05 mils + 1%) 0 - 2 mils $\pm$ (0.1 mils + 1%) > 2 mils			$\pm$ (0.5 mils + 1%) 0 - 100 mils $\pm$ (0.5 mil + 3%) > 100 mils
		$\pm$ (1 μ m + 1%) 0 - 50 μ m $\pm$ (2 μ m + 1%) > 50 μ m			$\pm$ (0.01 mm + 1%) 0 - 2.5 mm $\pm$ (0.01 mm + 3%) > 2.5 mm
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.					

Name/Description	Order Code	
PosiTector 6000 F Probe	PRBF	Add To Quote
PosiTector 6000 N Probe	PRBN	Add To Quote
PosiTector 6000 FN Probe	PRBFN	Add To Quote
PosiTector 6000 FT Probe	PRBFT	Add To Quote

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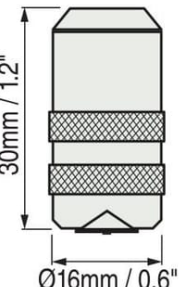
Cabled Regular Probes



FS, NS, FNS, NAS, FTS

These constant-pressure, stainless steel probes are hermetically sealed to be totally waterproof - ideal for underwater use.



Regular	Probe Model:	FS	NS	FNS	NAS	FTS
	Range:	0 - 60 mils			0 - 25 mils	0 - 250 mils
		0 - 1500 µm			0 - 625 µm	0 - 6 mm 0 - 6000 µm
	*Accuracy:	± (0.05 mils + 1%) 0 - 2 mils ± (0.1 mils + 1%) > 2 mils			± (0.02 mils + 1%) 0 - 4 mils ± (0.1 mils + 3%) > 4 mils	± (0.5 mils + 1%) 0 - 100 mils ± (0.5 mil + 3%) > 100 mils
		± (1 µm + 1%) 0 - 50 µm ± (2 µm + 1%) > 50 µm			± (.5 µm + 1%) 0 - 100 µm ± (2 µm + 3%) > 100 µm	± (0.01 mm + 1%) 0 - 2.5 mm ± (0.01 mm + 3%) > 2.5 mm
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.						

Name/Description	Order Code	
PosiTector 6000 FS Probe	PRBFS	Add To Quote
PosiTector 6000 NS Probe	PRBNS	Add To Quote
PosiTector 6000 FNS Probe	PRBFNS	Add To Quote
PosiTector 6000 NAS Probe	PRBNAS	Add To Quote
PosiTector 6000 FTS Probe	PRBFTS	Add To Quote

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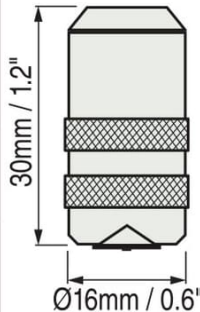


Designed for hot rugged applications. The FXS Xtreme™ probe features an improved zirconia-toughened alumina wear face and a new braided steel cable making it ideal for harsh conditions and continuous measurement on hot surfaces up to 250° C (500° F).

Enhanced measuring speed of 100+ readings per minute makes it ideal for measuring large, rough surfaces quickly. Scan mode increases measurement rate to over 200 readings per minute (PosiTector Advanced only).

Compatible with PosiTector bodies with serial numbers greater than 700,000.



FXS Xtreme™		
	Range:	0 - 2000 µm
		0 - 80 mils
	*Accuracy:	± (0.05 mils + 1%) 0 - 2 mils ± (0.1 mils + 1%) > 2 mils
		± (1 µm + 1%) 0 - 50 µm ± (2 µm + 1%) > 50 µm
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.		

Name/Description

Order Code

PosiTector 6000 FXS Probe

PRBFXS

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Cabled 90° Regular Probes

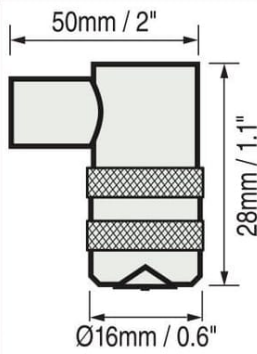


FRS, NRS, FNRS

Right angle probe for measuring within areas of low headroom.

These constant-pressure, stainless steel probes are hermetically sealed to be totally waterproof - ideal for underwater use.



90° Regular	Probe Model:	FRS	NRS	FNRS
	Range:	0 - 60 mils		
		0 - 1500 µm		
	*Accuracy:	± (0.05 mils + 1%) 0 - 2 mils ± (0.1 mils + 1%) > 2 mils		
		± (1 µm + 1%) 0 - 50 µm ± (2 µm + 1%) > 50 µm		
	*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.			



Name/Description	Order Code	
PosiTector 6000 FRS Probe	PRBFRS	Add To Quote
PosiTector 6000 NRS Probe	PRBNRS	Add To Quote
PosiTector 6000 FNRS Probe	PRBFNRS	Add To Quote

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Cabled FNDS Probe for Duplex Coatings

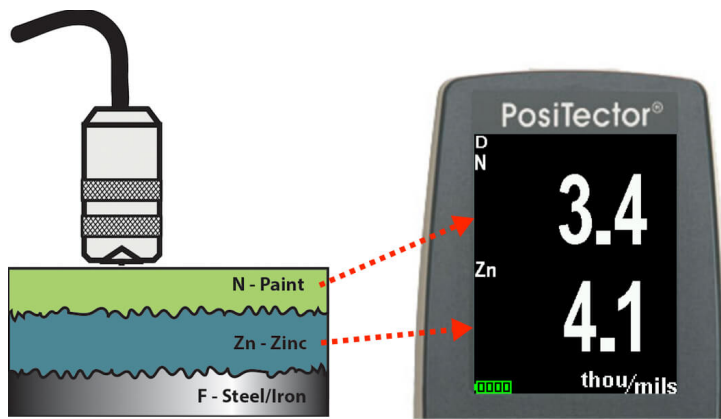


The **PosiTector 6000 FNDS** probe measures the individual thicknesses of both the paint and the zinc layers in a duplex coating system with a single reading.

Duplex coating systems use a combination of two corrosion protection systems – typically paint or powder coating over galvanized steel (hot-dip, electro or zinc spray metallizing). The resultant corrosion protection is superior to either protection system used independently.

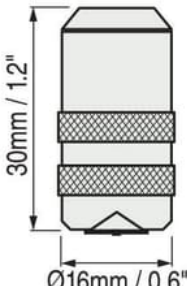
In Duplex mode, the **PosiTector 6000 FNDS** utilizes both magnetic (ferrous) and eddy current (non-ferrous) principles simultaneously to calculate and display the individual paint and zinc layer thicknesses. The magnetic principle is used to measure the combined paint/zinc thickness over the ferrous substrate, and the eddy current principle is used to measure the paint thickness over the non-ferrous zinc coating. The zinc thickness is calculated by subtracting the paint thickness from the combined paint/zinc thickness measurement.





When disabled, the gage will operate like a conventional combination ferrous/non-ferrous instrument (similar to PosiTector 6000 FNS probe). Ideal for measuring non-magnetic coatings over steel and non-conductive coatings over non-ferrous metal substrates.

Compatible with PosiTector Advanced (serial numbers 730,000+) and PosiTector Standard gage bodies with a color display. A Simple gage update may be required.

FNDS					
	Range:		0 - 60 mils 0 - 1500 μm		
	D U P L E X	Minimum Zinc Thickness:		0.5 mil (13 μm)	
		*Paint Layer Accuracy:		Mils	$\pm (0.05 \text{ mils} + 1\%)$ 0 - 2 mils $\pm (0.1 \text{ mils} + 1\%)$ > 2 mils
				Microns	$\pm (1 \text{ } \mu\text{m} + 1\%)$ 0 - 50 μm $\pm (2 \text{ } \mu\text{m} + 1\%)$ > 50 μm
		*Zinc Layer Accuracy:		Mils	$\pm (0.1 \text{ mils} + 1\%)$ 0.5 - 2 mils $\pm (0.2 \text{ mils} + 1\%)$ > 2 mils
				Microns	$\pm (2 \text{ } \mu\text{m} + 1\%)$ 13 - 50 μm $\pm (4 \text{ } \mu\text{m} + 1\%)$ > 50 μm
	*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.				

[Click here](#) to view the PosiTector 6000 FNDS probe instruction manual addendum.

Duplex Coating Thickness Measurement - PosiTector 6000 FNDS

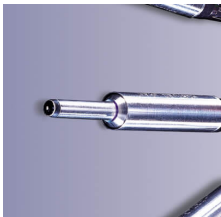


Name/Description	Order Code	
PosiTector 6000 FNDS Probe	PRBFNDS	Add To Quote



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Cabled 0° Microprobes

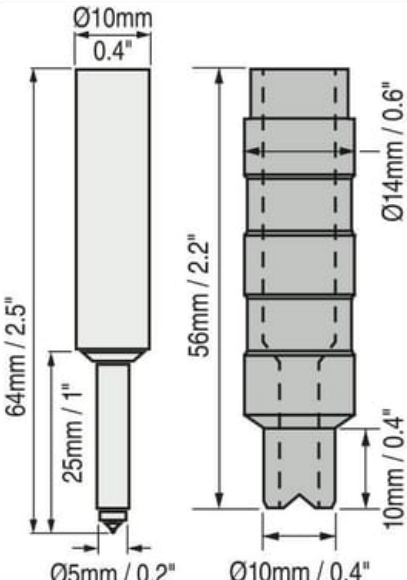


F0S, N0S

With our smallest measuring tip and best thin-film accuracy, this instrument is ideal for measuring on small parts, hard-to-reach areas, or close to edges.

The straight F0S and N0S Microprobes have a quick release adapter that makes them constant pressure probes for alignment on small, flat or curved parts. This adapter is held in place by a spring. If the sleeve is not required, simply pull it off the probe.

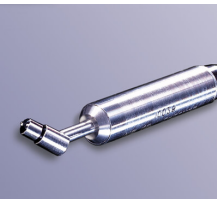


0° Microprobe	Probe Model:	F0S	N0S
	Range:	0 - 45 mils	0 - 25 mils
		0 - 1150 µm	0 - 625 µm
	*Accuracy:	± (0.02 mils + 1%) 0 - 4 mils ± (0.1 mils + 3%) > 4 mils	
		± (0.5 µm + 1%) 0 - 100 µm ± (2 µm + 3%) > 100 µm	
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.			

Name/Description	Order Code	
PosiTector 6000 F0S Probe	PRBF0S	Add To Quote



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F45S, N45S

With our smallest measuring tip and best thin-film accuracy, this instrument is ideal for measuring on small parts, hard-to-reach areas, or close to edges.



45° Microprobe	Probe Model:	F45S	N45S
	Range:	0 - 45 mils	0 - 25 mils
		0 - 1150 μ m	0 - 625 μ m
	*Accuracy:	$\pm (0.02 \text{ mils} + 1\%)$ 0 - 4 mils $\pm (0.1 \text{ mils} + 3\%)$ > 4 mils	
		$\pm (0.5 \mu\text{m} + 1\%)$ 0 - 100 μ m $\pm (2 \mu\text{m} + 3\%)$ > 100 μ m	
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.			

Name/Description	Order Code	
PosiTector 6000 F45S Probe	PRBF45S	Add To Quote
PosiTector 6000 N45S Probe	PRBN45S	Add To Quote

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Cabled 90° Microprobes

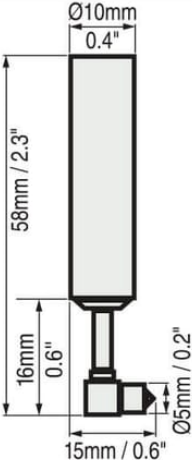


F90S, N90S

Right angle probe for measuring within areas of low headroom.

With our smallest measuring tip and best thin-film accuracy, this instrument is ideal for measuring on small parts, hard-to-reach areas, or close to edges.



90° Microprobe	Probe Model:	F90S	N90S
	Range:	0 - 45 mils	0 - 25 mils
		0 - 1150 µm	0 - 625 µm
	*Accuracy:	± (0.02 mils + 1%) 0 - 4 mils ± (0.1 mils + 3%) > 4 mils	
		± (0.5 µm + 1%) 0 - 100 µm ± (2 µm + 3%) > 100 µm	
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.			

Name/Description	Order Code	
PosiTector 6000 F90S Probe	PRBF90S	Add To Quote
PosiTector 6000 N90S Probe	PRBN90S	Add To Quote

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Cabled 90° Extended Length Microprobe



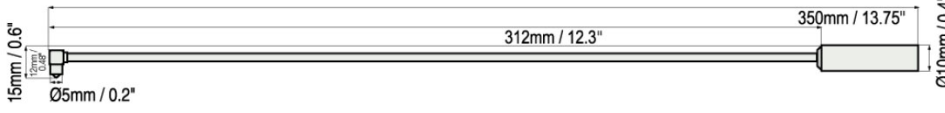


F90ES

Right angle extended length (350 mm / 13.75") probe for measuring within areas of low headroom.

With our smallest measuring tip, longest probe length and best thin-film accuracy, this instrument is ideal for measuring on small parts, hard-to-reach areas, or close to edges.



90° Extended Length Microprobe	
Probe Model: F90ES	
Range:	0 - 45 mils
	0 - 1150 μ m
*Accuracy:	$\pm$ (0.02 mils + 1%) 0 - 4 mils $\pm$ (0.1 mils + 3%) > 4 mils
	$\pm$ (0.5 μ m + 1%) 0 - 100 μ m $\pm$ (2 μ m + 3%) > 100 μ m
	
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.	

Name/Description

Order Code

PosiTector 6000 F90ES Probe

PRBF90ES

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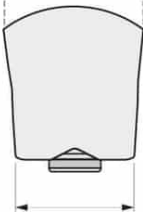
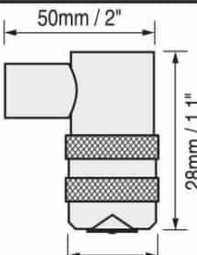
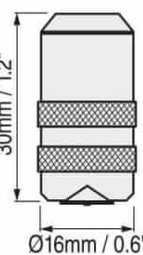
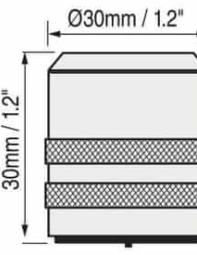
High-Range Probes



FT, FTS, FTRS, FNTS

Ideal for thick protective coatings such as epoxy, rubber, concrete liners, intumescent fireproofing and more.



High-Range		Probe Model:	FT	FTS	FTRS	FNTS
 21mm / 0.8" Side View	 50mm / 2" 28mm / 1.1" Ø16mm / 0.6" FTRS	Range:	0 - 250 mils			
			0 - 6 mm 0 - 6000 µm			
 30mm / 1.2" Ø16mm / 0.6" FTS	 Ø30mm / 1.2" 30mm / 1.2" FNTS	*Accuracy:	± (0.5 mils + 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			
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.						



Name/Description	Order Code	
PosiTector 6000 FT Probe	PRBFT	Add To Quote
PosiTector 6000 FTS Probe	PRBFTS	Add To Quote
PosiTector 6000 FTRS Probe	PRBFTRS	Add To Quote
PosiTector 6000 FNTS Probe	PRBFNTS	Add To Quote

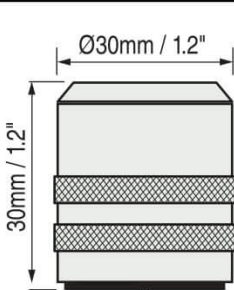
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FKS, NKS



Ideal for thick protective coatings such as epoxy, rubber, concrete liners, intumescent fireproofing and more.



High-Range	Probe Model:	FKS	NKS
	Range:	0 - 500 mils	
		0 - 13 mm	
	*Accuracy:	± (1 mils + 3%) 0 - 500 mils	
		± (0.02 mm + 3%) 0 - 13 mm	
	*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.		



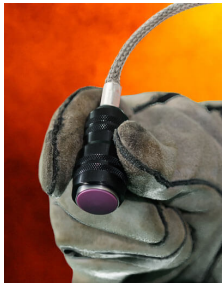
Name/Description

Order Code

PosiTector 6000 FKS Probe	PRBFKS	Add To Quote
PosiTector 6000 NKS Probe	PRBNKS	Add To Quote

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FHXS Xtreme™

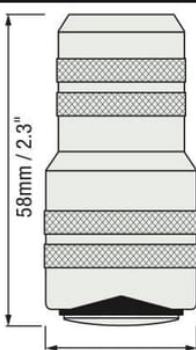


Measure *non-conductive* coatings on steel substrates.

FHXS Xtreme™ probe with Alumina wear face and braided cable for hot or rough surfaces.

Hot surfaces up to 250° C (500° F). Compatible with PosiTector bodies with serial numbers greater than 700,000 and the new PosiTector SmartLink.



FHXS Xtreme™		
	Range:	0 - 10,000 μm
		0 - 400 mils
	*Accuracy:	± (0.1 mils + 3%)
		± (2 μm + 3%)
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.		



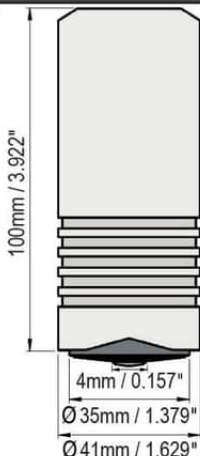
Name/Description	Order Code	
PosiTector 6000 FHXS Probe	PRBFHXS	Add To Quote

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FJS



- Ideal for measuring thick epoxies, rubbers, fireproofing and other thick protective coatings applied to steel.
- Lightweight, ergonomic design - 66% smaller than comparable probes
 - Electro-magnetic probe is less susceptible to the effects of substrate roughness, curvature, material, and alloy

FJS		
 100mm / 3.922" 4mm / 0.157" Ø35mm / 1.379" Ø41mm / 1.629"	Range:	0 - 1.0 in.
		0 - 25 mm
	*Accuracy:	± (0.01 in. + 3%)
		± (0.2 mm + 3%)
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.		

Name/Description	Order Code	
PosiTector 6000 FJS Probe	PRBFJS	Add To Quote

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FLS

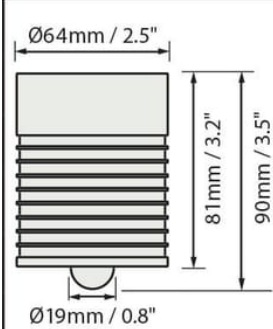


Measures intumescent paint and other thick protective coatings on steel.

- Measures up to 38 mm (1.5 inches)
- Braided stainless steel cable - kink-proof, wear and cut resistant
- Includes hard shell case and 19 mm (750 mil) shim



Compatible with PosiTector bodies with serial numbers greater than 700,000 and the new PosiTector *SmartLink*.

FLS		
	Range:	0 - 38 mm
		0 - 1.5 inches
	*Accuracy:	± (0.01 in. + 3%)
		± (0.2 mm + 3%)
	Minimum Surface Area:	3.25 x 3.25 in. (83 x 83 mm)
Minimum Substrate Thickness:		0.1 in. (2.5 mm)
*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.		

Name/Description	Order Code	
PosiTector 6000 FLS Probe	PRBFLS	Add To Quote

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FNGS



Measures very thick coatings on ALL metals. Ideal for measuring ship hull coatings and thick intumescent paints.

- Measures up to 63.5 mm (2.5 inches)
- Measures **non-conductive** coatings on both ferrous and non-ferrous metal substrates
- Braided stainless steel cable - kink-proof, wear and cut resistant
- Long-lasting, low wear probe face to facilitate scanning of large surfaces
- Includes a handle for easy one-handed operation
- Includes a set of traceable coating thickness standards



- Includes **instruction card**

Compatible with PosiTector bodies with serial numbers greater than 700,000 and the new PosiTector *SmartLink*.

FNGS		
	Range:	0 - 63.5 mm
		0 - 2.5 inches
	*Accuracy:	± (0.01 in. + 3%) ± (0.2 mm + 3%)
	Minimum Surface Area:	10 x 10 in. (254 x 254 mm)
	Minimum Substrate Thickness:	0.2 in. (5 mm)
	Weight:	0.8 lb. (0.4 kg)
	*Accuracies are stated as a fixed value plus a percentage of the gage's actual reading.	



Name/Description

Order Code

PosiTector 6000 FNGS Probe

PRBFNGS

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