








PHYNIX probes for coating thickness measurement: technical data

Probe	Application	Image	Range	Tolerance <sup>1</sup> Works Calibration <sup>2</sup> Zeroing <sup>3</sup> Foil Calibration	Size [mm] Weight Temperature -Range	Minimum Headroom	Minimum Curvature Radius	Minimum Measuring Area	Minimum Substrate Thickness	Influence of Conductance in N-mode
F 1.5	non-magnetic coatings on steel/iron		0 - 1500 µm	<sup>1</sup> ± 3 µm or 3 % of reading; whichever is greater <sup>2</sup> ±(1 µm + 2 % of reading) <sup>3</sup> ±(1 µm + 1 % of reading)	Ø 14 x 83 appr. 70 g 0 ... 60 °C	115 mm	1,5 mm convex 5 mm concave	Ø 5 mm	0,2 mm steel/iron 50 µm non-ferrous metals	-
N 1.5	electrical insulating coatings on non-ferrous metals									no influence with coatings > 30 µm
FN 1.5	combination probe									
FN 0.2	combination probe for thin layers		0 - 200 µm	<sup>1</sup> ± 2,5 µm or 2,5 % of reading; whichever is greater <sup>2</sup> ±(0,7 µm + 1,5 % of reading) <sup>3</sup> ±(0,7 µm + 1 % of reading)						
F 1.5 R	non-magnetic coatings on steel/iron, angled probe		0 - 1500 µm	<sup>1</sup> ± 3 µm or 3 % of reading; whichever is greater <sup>2</sup> ±(1 µm + 2 % of reading) <sup>3</sup> ±(1 µm + 1 % of reading)	Ø 16 x 24 x 62 appr. 90 g 0 ... 60 °C	30 mm	1,5 mm convex 20 mm concave			-
FN 1.5 R	combination probe, angled probe									no influence with coatings > 30 µm
FN 1.5/90°	combination probe for tubes or grooves		0 - 1500 µm		8 x 8 x 180 appr. 80 g 0 ... 60 °C	13 mm	flat; 6 mm concave tube-Ø <sub>min</sub> 13 mm			
F 3.5	non-magnetic coatings on steel/iron, angled probe		0 - 3500 µm (F) 0 - 3000 µm (N)	<sup>1</sup> ± 5 µm or 3 % of reading; whichever is greater <sup>2</sup> ±(2 µm + 2 % of reading) <sup>3</sup> ±(2 µm + 1 % of reading)	Ø 25 x 47 appr. 105 g 0 ... 60 °C	60 mm	5 mm convex 50 mm concave	Ø 10 mm	0,5 mm steel/iron 0,1 mm non-ferrous metals	-
FN 3.5	combination probe, angled probe									no influence with coatings > 300 µm
F 10	non-magnetic coatings on steel/iron, angled probe		0 - 10 mm	<sup>1</sup> ± 10 µm or 3 % of reading; whichever is greater <sup>2</sup> ±(5 µm + 2 % of reading) <sup>3</sup> ±(3 µm + 1 % of reading)	Ø 25 x 47 appr. 85 g 0 ... 60 °C	75 mm	5 mm convex 16 mm concave	Ø 20 mm	1,0mm steel/iron	-
Hot Measurement Foot	suitable for F1.5, N1.5, FN1.5, FN0.2		0 - 1500 µm	-	-15 ... 150 °C	-	1,5 mm convex 40 mm concave	-	-	-
High Temperature Foot	suitable for F1.5, N1.5, FN1.5		0 - 1000 µm	-	-15 ... 300 °C	-	eben	-	-	-