Probes for the magnetic induction method

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Probe model	**FGB2**	
Part no.	FGB2; standard version	604-179
	FGB2L; cable 5 m	604-265

Applications	Measures nonmetallic and nonferrous coatings on steel or iron substrates (NC/Fe or NF/Fe). Widest measurement range of all single tip probes. Large geometric influence due to unshielded magnetic field, but small tilting effect. Probe is supplied in a temperature-stable design by default, suitable for alternating measurements with specimen temperatures up to 80°C. Dwell time on heated specimen: max. 1 sec, dwell time in air: min. 5 seconds. *The values for accuracy and measurement errors are valid for electrically non-conductive coating materials on steel or iron (NC/Fe). The values may differ for measurements on non-ferrous coating materials (NF).*
Probe design	Axial single tip probe with spring-loaded measuring system
Measuring application	NC/Fe or NF/Fe
Measuring range	0 - 5 mm
Accuracy	0 - 0.1 mm: ± 1.5 µm 0.1 - 3 mm: ≤ 1.5 % of value 3 - 5 mm: ≤ 5 % of value
Precision	0 - 0.1 mm: ≤ 0.3 µm 0,1 - 3 mm: ≤ 0.3 % of value 3 - 5 mm: ≤ 0.5 % of value

The following values for measurement errors are valid for a substrate thickness of 0.2 mm

	Measurement error ≥ 10% for Ø ≤ 37 mm probe needs a minimum of Ø 9 mm
	Measurement error ≥ 10% for Ø ≤ 21.5 mm probe needs a minimum of Ø 2 mm
	Measurement error ≥ 10% for Ø ≤ 20 mm probe needs a minimum of Ø 6 mm
	Meas. error ≥ 10% for edge distance ≤ 1.5 mm
	Meas. error ≥ 10% for substrate thickness ≤ 0.6 mm

Temperature	0 °C ... +80 °C specimen temperature - 10 °C ... +40 °C ambient temperature
Probe tip material	PVD-coated steel
Probe tip replaceable	Yes
Height	-
Diameter / width	10 mm
Length	110 mm
Works with the instruments	FMP10/20/30/40/100, MMS® PC PERMASCOPE®, MMS® PC2 & F-Module PERMASCOPE®