



<b>Probe model</b>	<b>FGABW1.3</b>
Part no.	FGABW1.3 604-178
Applications	<p>Measures nonmetallic and nonferrous coatings on steel or iron substrates (NC/Fe or NF/Fe). Most popular probe for the measurement of electroplated or paint and lacquer coatings in pipes, bore holes, recesses etc. We recommend the use of a dual-tip probe for measurements on rough (e.g. sandblasted) surfaces.</p> <p><i>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).</i></p>
Probe design	Single tip probe for angular measurements with spring-loaded measuring system
Measuring application	NC/Fe or NF/Fe
Measuring range	0 - 2000 $\mu\text{m}$
Accuracy	0 - 100 $\mu\text{m}$ : $\pm 1 \mu\text{m}$ 100 - 1000 $\mu\text{m}$ : $\pm 1 \%$ of value 1000 - 2000 $\mu\text{m}$ : $\leq 3 \%$ of value
Precision	0 - 100 $\mu\text{m}$ : $\leq 0.3 \mu\text{m}$ 100 - 2000 $\mu\text{m}$ : $\leq 0.3 \%$ of value
<i>The following values for measurement errors are valid for a substrate thickness of 75 <math>\mu\text{m}</math></i>	
	Measurement error $\geq 10\%$ for $\varnothing \leq 30 \text{ mm}$ probe needs a minimum of $\varnothing$ 30 mm
	Measurement error $\geq 10\%$ for $\varnothing \leq 16 \text{ mm}$ probe needs a minimum of $\varnothing$ 2 mm
	Measurement error $\geq 10\%$ for $\varnothing \leq 10 \text{ mm}$ probe needs a minimum of $\varnothing$ 3.5 mm
	Meas. error $\geq 10\%$ for edge distance $\leq 0.7 \text{ mm}$
	Meas. error $\geq 10\%$ for substrate thickness $\leq 0.4 \text{ mm}$
Temperature	- 10 °C ... +40 °C ambient temperature
Probe tip material	PVD-coated steel
Probe tip replaceable	Yes
Height	23 mm
Diameter / width	14 mm
Length	72 mm
Works with the instruments	FMP10/20/30/40/100, MMS® PC2 & Module PERMASCOPE®

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