# Probes for the magnetic induction method

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<th>Probe model</th>
<th>FGABW1.3</th>
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<td>Part no.</td>
<td>FGABW1.3 604-178</td>
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## Applications
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.

*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
Single tip probe for angular measurements with spring-loaded measuring system

## Measuring application
NC/Fe or NF/Fe

## Measuring range
0 - 2000 µm

## Accuracy
- 0 - 100 µm: ± 1 µm
- 100 - 1000 µm: ± 1 % of value
- 1000 - 2000 µm: ≤ 3 % of value

## Precision
- 0 - 100 µm: ≤ 0.3 µm
- 100 - 2000 µm: ≤ 0.3 % of value

*The following values for measurement errors are valid for a substrate thickness of 75 µm*

- Measurement error ≥ 10% for Ø ≤ 30 mm probe needs a minimum of Ø 30 mm
- Measurement error ≥ 10% for Ø ≤ 16 mm probe needs a minimum of Ø 2 mm
- Measurement error ≥ 10% for Ø ≤ 10 mm probe needs a minimum of Ø 3.5 mm
- Meas. error ≥ 10% for edge distance ≤ 0.7 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®