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

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| 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.<br>*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<br>0.1 - 3 mm: ≤ 1.5 % of value<br>3 - 5 mm: ≤ 5 % of value |
| Precision | 0 - 0.1 mm: ≤ 0.3 µm<br>0,1 - 3 mm: ≤ 0.3 % of value<br>3 - 5 mm: ≤ 0.5 % of value |

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

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|  | Measurement error ≥ 10% for Ø ≤ 37 mm<br>probe needs a minimum of Ø 9 mm |
|  | Measurement error ≥ 10% for Ø ≤ 21.5 mm<br>probe needs a minimum of Ø 2 mm |
|  | Measurement error ≥ 10% for Ø ≤ 20 mm<br>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<br>- 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® |