

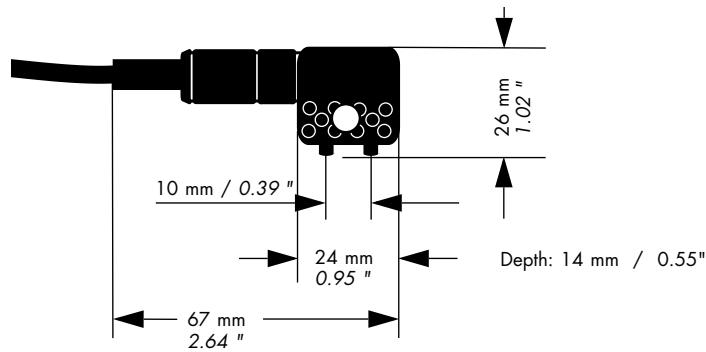


FKB10

Probe model	604-177
Applications	Measurement of non-conductive and non-ferrous metal coatings on steel or iron base materials (NC/Fe or NF/Fe). Especially suited for thick coatings. Higher measurement precision on rough surfaces than single tip probes.
Examples	<p>Steel or iron base materials (Fe)</p> <ul style="list-style-type: none"> • Paint, varnish or plastic coatings on steel or iron (NC/Fe) • Copper, brass, zinc, tin and chrome coatings on steel or iron (NF/Fe)
Probe design	Double tip angle probe with fixed measuring system
Applications	NC/Fe or NF/Fe
*	<i>The values for measurement range, trueness, repeatability precision 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>
Measurement range*	<p>Steel or iron base materials (Fe)</p> <p>0 ... 8 mm / 0 ... 314.96 mils</p>
Trueness*	<p>Steel or iron base materials (Fe)</p> <p>0 ... 0.5 mm: ≤ 0.01 mm 0.5 ... 8.0 mm: ≤ 2 % of reading 0 ... 19.69 mils: ≤ 0.39 mils 19.69 ... 314.96 mils: ≤ 2 % of reading</p>
based on factory calibration standards of the Helmut Fischer GmbH	
Repeatability precision*	<p>Steel or iron base materials (Fe)</p> <p>0 ... 0.5 mm: ≤ 0.0025 mm 0.5 ... 8.0 mm: ≤ 0.5 % of reading 0 ... 19.69 mils: ≤ 0.1 mils 19.69 ... 314.96 mils: 0.5 % of reading</p>
based on factory calibration standards of the Helmut Fischer GmbH 5 single readings per standard	
Influences*	<p>Steel or iron base materials (Fe)</p> <p><i>The following values are valid for a reference coating thickness of 0.2 mm (7.87 mils).</i></p>
Curvature (R), measurement with reference to master calibration on flat surface	
	<p>Measurement error ≥ 10 % for $R \leq 37.5 \text{ mm}$ / $R \leq 1.48 \text{ ''}$ Probe needs a minimum of $R = 12 \text{ mm}$ / $R = 0.47 \text{ ''}$</p>
Curvature (R), measurement with reference to master calibration on flat surface	
	<p>Measurement error ≥ 10 % for $R \leq 25 \text{ mm}$ / $R \leq 0.98 \text{ ''}$ Probe needs a minimum of $R = 1 \text{ mm}$ / $R = 0.04 \text{ ''}$</p>
Edge distance (R), specification from probe pole center	
	<p>Measurement error ≥ 10 % for $R \leq 15 \text{ mm}$ / $R \leq 0.59 \text{ ''}$ Probe needs a minimum of $R = 10 \text{ mm}$ / $R = 0.39 \text{ ''}$</p>
Base material thickness (D)	
	<p>Measurement error ≥ 10 % for $D \leq 0.5 \text{ mm}$ / $D \leq 19.69 \text{ mils}$</p>

Admissible ambient temperature at operation	-10 °C ... +40 °C / +14 °F ... +104 °F
Probe tip material	PVC-coated steel
Probe tip replaceable	Yes
Probe tip radiuses	1.5 mm each / 59.06 mils each
Measuring method	Magnetic induction method according to ISO 2178, ASTM D7091
Scope of supply	Probe, metal plate NF/FE for instrument check, calibration set (602-449)
Works with instruments	All DUALSCOPE® and DELTASCOPE® hand-held instruments of the series FMP and FISCHERSCOPE® MMS® PC2 with F-Module PERMASCOPE®

Dimensions



Cable length: 1.50 m / 59.06 "

FE02.4 doc11/14