

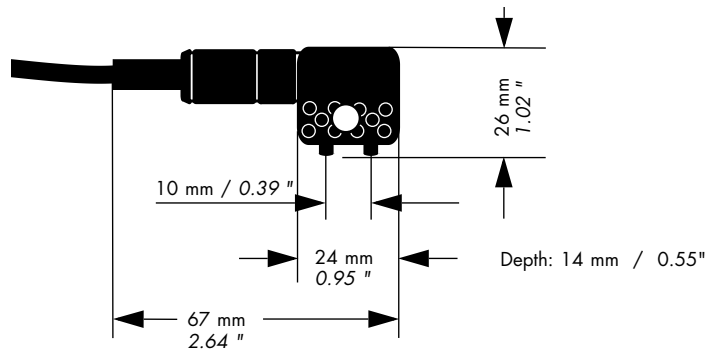


FKB10

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: $\leq 2\%$ of reading 0 ... 19.69 mils: ≤ 0.39 mils 19.69 ... 314.96 mils: $\leq 2\%$ of reading</p> <p><small>based on factory calibration standards of the Helmut Fischer GmbH</small></p>
Repeatability precision*	<p>Steel or iron base materials (Fe)</p> <p>0 ... 0.5 mm: ≤ 0.0025 mm 0.5 ... 8.0 mm: $\leq 0.5\%$ of reading 0 ... 19.69 mils: ≤ 0.1 mils 19.69 ... 314.96 mils: 0.5% of reading</p> <p><small>based on factory calibration standards of the Helmut Fischer GmbH 5 single readings per standard</small></p>
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 $\geq 10\%$ for $R \leq 37.5$ mm / $R \leq 1.48$ "</p> <p>Probe needs a minimum of $R = 12$ mm / $R = 0.47$ "</p>
Curvature (R), measurement with reference to master calibration on flat surface	
	<p>Measurement error $\geq 10\%$ for $R \leq 25$ mm / $R \leq 0.98$ "</p> <p>Probe needs a minimum of $R = 1$ mm / $R = 0.04$ "</p>
Edge distance (R), specification from probe pole center	
	<p>Measurement error $\geq 10\%$ for $R \leq 15$ mm / $R \leq 0.59$ "</p> <p>Probe needs a minimum of $R = 10$ mm / $R = 0.39$ "</p>
Base material thickness (D)	
	<p>Measurement error $\geq 10\%$ for $D \leq 0.5$ mm / $D \leq 19.69$ 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 "

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