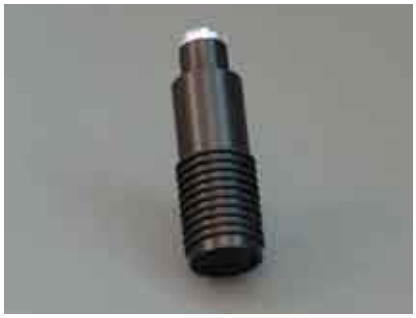
Reference Standards for Conductivity and Coating Thickness Measurement

ELOTEST M2 V3

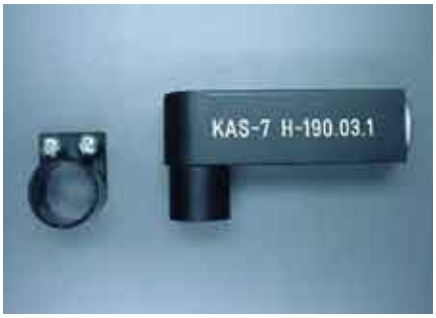
ELOTEST M3

ELOTEST B300

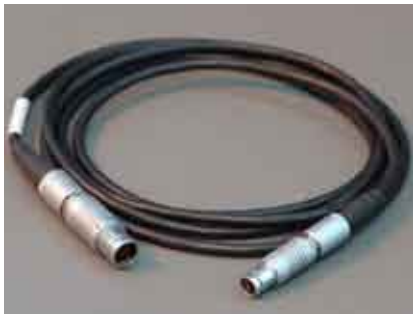
Our hand-held **ELOTEST Eddy Current Test Instruments M2 V3, M3 and the B300-series** offer additionally to the standard eddy current functions the possibility to measure conductivity and coating thickness. For this all instruments use the standard test frequency of 60 kHz. The conductivity measuring can be carried out in % IACS as well as in MS/m. The measuring range extends from 1 % IACS to 110 % IACS and is suitable for the conductivity measurement of non-ferromagnetic metals and metal alloys.
The layer thickness measuring can be carried out in µm or in mil and is suitable for the measuring of non-conductive layers up to 1000 ym on conductive, but non-ferromagnetic basic material.



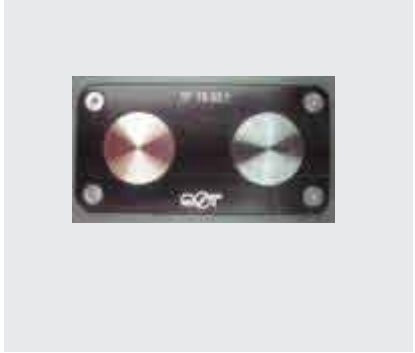
Probe KAS-7 H-190
Standard probe for conductivity measurement at 60 kHz in straight design



Probe with prism guiding KAS-7 H-190.03.1
Angled standard probe for conductivity measurement at 60 kHz



Cable EK-2-023
Connecting cable for standard conductivity probes for ELOTEST M2 V3, M3 or B300. ELOTEST B300 requires a B3-RS adaptor.



Reference standard TP 79.02.1
Conductivity standard

Reference standard TP79.04.1
Conductivity standard

Reference standard TP 105 aluminium
Coating thickness standard

Conductivity measuring

Description	Item-No.	Content	Material
TP 79.02.1	A0M0020079001021	**with reference parts**	
		CU-E/ approx. 101 % IACS	Copper inlet
		TiAl6V4/ 3.7165/approx. 1 % IACS	Titanium inlet
TP 79.04.1	A0M0020079001041	**with 6 reference parts**	
		CU-E/ approx. 101 % IACS	Copper inlet
		TiAl6V4/ 3.7165/ approx. 1 % IACS	Titanium inlet
		1.4305/ approx. 3 % IACS	Stainless steel inlet
		CuZn3Pb3/ Ms 58/ approx. 28 % IACS	Brass inlet
		AlMg1/ 3.3315/ approx. 33 % IACS	Aluminium inlet
		AlCuMgPb/ 3.1645/ approx. 46 % IACS	Aluminium inlet
TP 79.05.1	A0M0020079001051	**with 3 reference parts**	
		AlMg1/ 3.3315/ approx. 33 % IACS	Aluminium inlet
		AlCuMgPb/ 3.1645/ approx. 46 % IACS	Aluminium inlet
		Al99,5/ 3.0255/ approx. 59 % IACS	Aluminium inlet

Layer thickness

Description	Item-No.	Content	Material
TP105	A0M0020105001011	**Aluminium carrier plate, 50x100mm**	
		Foilcalibration standard	50 µm
		Foilcalibration standard	100 µm
		Foilcalibration standard	500 µm
		Foilcalibration standard	1000 µm

Probes for conductivity and layer thickness

Description	Item-No.	Test frequency
KAS-7 H-190 (straight design)	A0M0010190001011	60 kHz / straight design (probe 200 Hz - 100 kHz)
KAS-7 H190.03.1 (angled design)	A0M0010190001031	60 kHz / 90° angled design (probe 200 Hz - 100 kHz)

Probe cable

Description	Item-No.	
EK-2-023	A0MW100000023011	Cable for both KAS-probes for M2 V3, M3 and B300. B300 requires the B3-RS adaptor.

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