FOERSTER

SIGMATEST TCM

Electrical conductivity measurement of non-ferromagnetic metals

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Precise and reliable conductivity measurement. Conductivity measurement determines physical and technical material properties. Ideal for quality control on manufactured products, the SIGMATEST TCM is also useful for testing material compositions and sorting metals, alloys and scrap. Further applications include the detection of heat damage during aircraft maintenance, as well as process control in production in the metals industry.

The SIGMATEST TCM module is used with special conductivity probes that are calibrated to traceable conductivity standards (PTB/NIST or NPL) at 20°C in the FOERSTER calibration laboratory. The calibration data are stored on the sensor and retrieved by the TCM. This enables exact conductivity measurements.

A single measurement is triggered by touch. If a scan of the surface is required, measured values can be output continuously and displayed in a time diagram.

YOUR ADVANTAGES AT A GLANCE

Wide frequency range: allows for measurement of different material thicknesses

Shielded probes: help avoid edge effects

Reduced wear: specially designed probes with durable titanium protection ensure long service life

Easy handling: automatic recognition of the probes and loading of the correct calibration curves

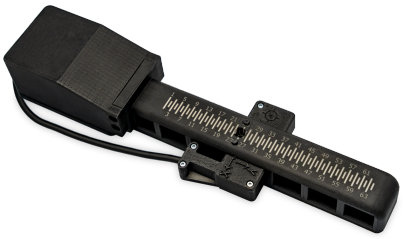
NORMS

DIN EN ISO 15548: Standard defining performance characteristics and verification of eddy current testing instruments to ensure reliable and reproducible measurements.

TECHNICAL INFORMATION

FREQUENCY:	60, 120, 240, 480, 960 kHz
ACCURACY:	+/- 0.7% of measured value at 60 kHz, 14 mm probe
RESOLUTION:	+/- 0.1% of measured value
RANGE:	0.5 to 65 MS/m (1-112% IACS)

ACCESSORIES

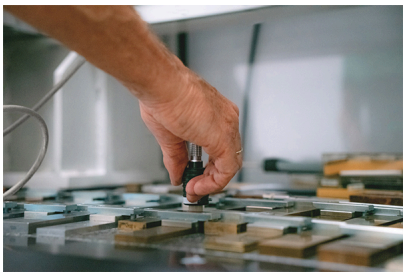


STANDARD TCM ARRAY PROBES
Versatile Eddy Current Array Probes for Efficient Surface Inspection

TCM STANDARD PROBES
Flexible probe solutions for precise eddy current inspection with the TCM

REFERENCE STANDARD CONDUCTIVITY MEASUREMENT
Reference standards for checking and setting up conductivity measurement

SIGMATEST PROBES
Flexible conductivity probes for precise testing of non-ferromagnetic metals



RECALIBRATION OF MOBILE PRODUCTS
Recalibration guarantees the accuracy and quality of your test and measurement values

HRO HAND ROTATING UNIT
High-resolution borehole inspection with rotating eddy current probes

TCM DOCKING STATION
From mobile inspection device to full workstation setup

TCM SHOULDER STRAP
For comfortable hands-free operation of the TCM during mobile inspection tasks

TCM SPARE BATTERY
Extend the operating time of your TCM and stay productive even during long inspection workflows.

FOERSTER

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Headquarters
Institut Dr. Foerster GmbH & Co. KG

In Laisen 70
72766 Reutlingen
Germany

+49 7121 140 0
info@foerstergroup.com

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