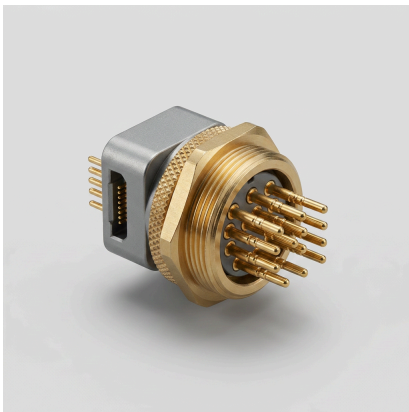


TESTING OF RESIDUAL MAGNETIC FIELDS IN NON-MAGNETIC ELECTRONIC CONNECTORS

Processing can leave magnetic contamination on tiny connectors. Differential field measurement with MAGNETOSCOP or MAGNETOMAT detects anomalies with high sensitivity.



THE CHALLENGE

Manufacturers of magnetically sensitive equipment, such as imaging systems, must ensure that connectors and components are magnetically clean. Even if raw materials are qualified as non-magnetic, processing can introduce magnetic contamination. For small connectors only a few millimetres in size, conventional permeability testing is no longer suitable, requiring an alternative high-sensitivity method.

THE SOLUTION

Residual magnetic field measurement is performed using MAGNETOSCOP or MAGNETOMAT with a differential probe such as the PFD-100. The opposing sensor arrangement compensates for environmental magnetic disturbances while detecting local anomalies. Components are positioned on one sensor, enabling precise evaluation of remanent magnetic signatures without magnetic shielding.



THE RESULT

The differential measurement approach enables highly sensitive detection of residual magnetic fields on small connectors. Environmental interference is effectively minimized, improving reproducibility and reliability. The method supports quality control of non-magnetic electronic components and ensures compliance with magnetic cleanliness requirements in sensitive applications.

THE PRODUCTS

MAGNETOMAT

PC-supported magnetometer for measuring magnetic flux density and relative permeability



MAGNETOSCOPI

Portable Solution For Magnetic Field and Permeability Measurement



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