

PRECISION MAGNETIC MEASUREMENT FOR THE SEMICONDUCTOR INDUSTRY



SENIS magnetometers and magnetic field mappers deliver the accuracy, reliability and automation required for advanced semiconductor manufacturing, testing and process control.

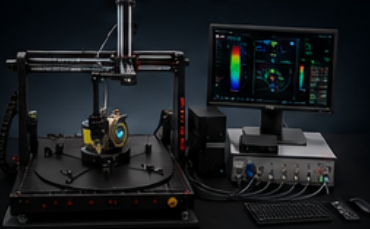
- HIGH ACCURACY**
From nT to Tesla
- WIDE BANDWIDTH**
DC to MHz range
- ISO 17025 READY**
Traceable & repeatable
- AUTOMATION READY**
Easy integration into test systems



SENIS MAGNETOMETERS



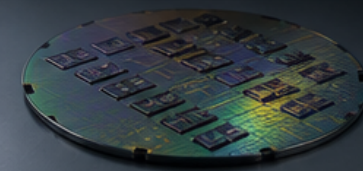
SENIS MAGNETIC FIELD MAPPERS – HIGH RESOLUTION 3D FIELD MAPPING



- 3D VECTOR FIELD MAPPING** (Bx, By, Bz)
- SUB-MILLIMETER SPATIAL RESOLUTION**
- LARGE MEASUREMENT VOLUME**
- AUTOMATED MEASUREMENTS**
- IDEAL FOR COMPLEX MAGNETIC SYSTEMS**

Essential for developing and validating magnetic designs used in semiconductor tools, from magnets and sensors to complete subsystems.

APPLICATIONS IN SEMICONDUCTOR MANUFACTURING



WAFER LEVEL SENSOR TEST & CALIBRATION

Test, calibrate and characterize wafers with magnetic sensors (Hall, TMR, AMR, GMR) for position, current and angle sensing applications.



SPUTTERING & THIN FILM SYSTEMS

Measure and map magnetic fields in sputtering equipment for process optimization, uniformity and magnetron characterization.



INTEGRATION IN SEMICONDUCTOR TEST EQUIPMENT

Seamless integration of SENIS magnetometers and transducers into ATE and handler systems for in-line magnetic testing and quality control.



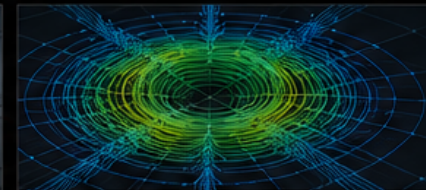
MAGNETIC SYSTEMS & COMPONENTS

Test and characterize magnets, actuators, magnetic chucks, linear motors and other magnetic assemblies used in semiconductor manufacturing equipment.



PROCESS CONTROL & MONITORING

Real-time magnetic field monitoring for predictive maintenance, drift detection and process stability.



R&D, VALIDATION & FAILURE ANALYSIS

Detailed magnetic field mapping and analysis to support R&D, simulation validation and root cause analysis.

KEY BENEFITS

- IMPROVE YIELD & QUALITY**
- ENSURE SAFETY & EMC COMPLIANCE**
- REDUCE DOWNTIME & COSTS**
- ACCELERATE R&D & INNOVATION**
- TRACEABLE & RELIABLE**



MEASURE. CONTROL. OPTIMIZE.

Enabling precision, performance and reliability in semiconductor manufacturing.



PRECISION MEASUREMENT



SWISS ENGINEERING



SUPPORT

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