FOERSTER

DEFECTOMAT DI

Compact inline eddy current inspection with centralized control for long product manufacturing

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Your cost-effective introduction to automated quality assurance. The DEFECTOMAT DI is a compact eddy current inspection instrument for the non-destructive testing of tubes, bars, wire and profiles. Designed for continuous quality assurance and process monitoring, it reliably detects surface and near-surface defects while supporting stable production processes across a wide range of long product applications.

Developed for standard eddy current inspection tasks, the DEFECTOMAT DI combines comprehensive testing capabilities with a compact design and flexible system architecture. Inspection, parameter configuration and result archiving are performed via an external PC connected through Ethernet, allowing centralized operation and straightforward integration into networked production environments.

Its flexible two-channel architecture with optional Diff/Abs, Diff/Diff or Diff/FERROMAT evaluation, twelve excitation frequencies from 1 to 1,000 kHz, automatic filter tracking and advanced signal evaluation provide reliable inspection performance for a wide variety of materials and applications. Multiple DEFECTOMAT DI instruments can be operated from a single workstation, creating an efficient solution for centralized quality monitoring across multiple production lines.

YOUR ADVANTAGES AT A GLANCE

Cost-effective entry into automated quality assurance: Comprehensive eddy current testing functions for the most common inspection applications.

Centralized operation: Operate, configure and archive inspection data conveniently via an external Ethernet-connected PC.

Multi-line support: Control multiple DEFECTOMAT DI instruments from a single workstation for efficient production monitoring.

Flexible two-channel testing: Configure Diff/Abs, Diff/Diff or Diff/FERROMAT combinations to suit a wide range of inspection tasks.

Reliable inspection performance: Twelve excitation frequencies from 1 to 1,000 kHz, automatic filter tracking and sector signal evaluation ensure dependable results.

Easy system integration: Compact design, Ethernet connectivity and remote configuration simplify integration into existing production environments.

Expandable functionality: Start with a standard configuration and extend the system with optional functions as your inspection requirements grow.

High system availability: Integrated sensor monitoring, protocolled calibration and pin-compatible connections simplify maintenance and replacement.

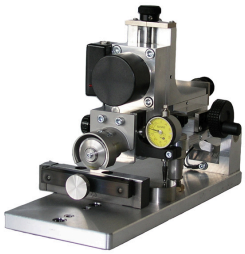
NORMS

- **DIN EN ISO 15549**

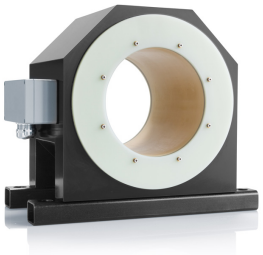
TECHNICAL INFORMATION

MEASUREMENT CHANNELS:	Max. 2 independent channels, differential or static operation, second measurement channels optionally as FERROMAT
EXCITATION FREQUENCIES:	1, 3, 6, 10, 12, 15 20, 30, 60, 100, 300, 1,000 kHz (optional additional frequencies)
FILTERING PROCESS:	manual, 25 levels, 1 Hz – 16 kHz
AMPLIFICATION:	max. dynamic range 102 dB
TEST SPEED:	max. 150 m/s
SENSOR MONITORING:	disruption, short circuit, overload

ACCESSORIES



TEST DEFECT SAW
Precise Reference Notches for Reliable Calibration



EMAG
Demagnetization unit for ferromagnetic wires, rods, and tubes

MAG
Magnetization supply for ferromagnetic wires, rods, and tubes

COLOR MARKING SYSTEM
Precision marking of defects on the test piece

FOERSTER

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