

New Approach to NDE of Large Structures

MsSR-2020, Long-Range Guided-Wave Instrument for Research & Industrial Applications

MsSR-2020D is a new state-of-the-art instrument for research and industrial applications of low-frequency (5~250 kHz) guided waves. The instrument, based on patented magnetostrictive sensor (MsS) technology, is applicable for both ferrous and non-ferrous material and is excellent for long-range global inspection and monitoring of large structures.



Research Areas

- Guided wave propagation properties
- Long-term health monitoring of large structures
- Nondestructive evaluation (NDE)
- Industrial measurement applications (position, length, temperature, vibration, hydration or hardening process, etc.)
- Fracture, shock waves, and acoustic emission



Structures that can be inspected and monitored

- Rod, cable, pipe, tube, plate, sheet, rail, steel beams
- Storage tank, containment linear, pressure vessel
- Airplane, bridge, ship, industrial factory

MsSR-2020 Features

Easy to use, two channels for wave directionality control, digital communication for data acquisition and scope function, software for data acquisition and printing, rugged for field use, various software for special application and data analysis (optional)



MsS Probe Features

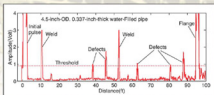
Easy mode control, easy installation, inexpensive, rugged

Available MsS probes

- Torsional-mode probe, longitudinal-mode probe in cylindrical structure
- SH-mode probe, Lamb-mode probe in plate structure



MsSR-2020 makes possible to use non-dispersive wave modes (Torsional-mode in cylindrical structure, SH-mode probe in plate structure) for inspection and long-term health monitoring.



Other Products

- Conductivity Tester
- Ultrasound Pressure Tester
- Ultrasonic Concrete Tester
- Half-Cell Concrete Rebar Corrosion Tester



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