FOERSTER

SONATEST SITESCAN D-50

Compact broadband ultrasonic flaw detector for mobile flaw and wall thickness inspection

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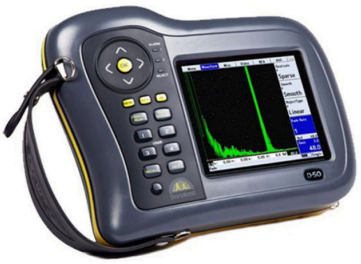

Full UT capability. Compact by design. The SONATEST SITESCAN D-50 is a compact broadband ultrasonic flaw detector for manual inspection tasks. With its 200 V pulser, 0.5 dB gain resolution, and 110 dB gain range, it provides the essential capabilities for reliable flaw detection and evaluation. Typical applications include weld and corrosion inspection, forgings and castings, as well as general industrial ultrasonic testing.

For different inspection requirements, various methods for flaw evaluation and sizing are available. DAC is included as standard, while Split DAC, DGS/AVG, TCG, AWS, API, and Backwall Echo Attenuation (BEA) are available as options. The integrated evaluation methods support efficient analysis of inspection results and working according to different inspection requirements and standards.

Weighing only 1.7 kg, the SITESCAN D-50 is particularly compact and designed for mobile inspection. Its impact-resistant housing with IP67 protection and a battery life of up to 10.5 hours support extended inspection intervals in industrial environments. The transflective VGA color display with adjustable brightness and nine color palettes provides good readability under varying lighting conditions.

UT-Lity Lite supports efficient management of calibrations and inspection data on both the device and PC. A-scans, B-scans, and thickness logs can be analyzed and exported, while customized inspection report templates support efficient documentation.

YOUR ADVANTAGES AT A GLANCE

Compact and mobile: Weighs only 1.7 kg with up to 10.5 hours of battery life

Reliable flaw detection: 200 V pulser, 0.5 dB gain resolution, and 110 dB gain range

Flexible flaw evaluation: DAC as standard plus optional Split DAC, DGS/AVG, TCG, AWS, API, and BEA

Wide range of applications: For welds, corrosion, forgings, castings, and general UT inspection

Rugged for field use: Impact-resistant housing with IP67 protection for demanding industrial environments

Efficient data management: Manage, analyze, export, and document inspection data with UT-Lity Lite

NORMS

DIN EN ISO 22232-1: Specifies the characterization and verification requirements for ultrasonic test instruments used in non-destructive testing.

TECHNICAL INFORMATION

DISPLAY:	Transflective VGA TFT color display, 640 × 480 px, 9 color palettes with adjustable brightness
IP RATING:	IP67
WEIGHT:	1.7 kg incl. battery
DIMENSIONS:	238 × 172 × 70 mm
OPERATING TEMPERATURE:	-10 °C to +55 °C
BATTERY LIFE:	Up to 10.5 hours
STORAGE:	4 GB
TEST RANGE:	1 – 10,000 mm
VELOCITY:	1,000 – 10,000 m/s, continuously adjustable
TIME RANGE:	0 – 1,000 µs
MEASUREMENT MODES:	7
GATES:	2
GAIN RANGE:	0 – 110 dB
GAIN RESOLUTION:	0.5 dB
PULSER VOLTAGE:	200 V, fixed
PULSE WIDTH:	50 ns
PULSE REPETITION FREQUENCY (PRF):	35 Hz to 1 kHz
ENCODER CONNECTION:	LEMO Mini, 4-pin
TRANSDUCER CONNECTIONS:	BNC or LEMO, factory option
USB CONNECTION:	Yes
FLAW EVALUATION METHODS AND SOFTWARE OPTIONS:	— DAC (standard) — Split DAC (option) — DGS/AVG (option) — TCG (option) — BEA (option, requires TCG) — AWS (option) — API (option) — Interface Trigger (option) — Corrosion Software (option)

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