



CERTIFICATION ACCORDING TO EN OR ASTM STANDARD

COMPACT DESIGN AND POWERFUL PERFORMANCE

ALUMINUM HOUSING WITH IP67 PROTECTION CLASS

SONO-ID FOR WIRELESS PROBE RECOGNITION

SONOGRID CORROSION MANAGEMENT SOFTWARE

ADVANCED A-/B-SCAN WALL THICKNESS GAGE

SONOWALL 70

FOR ULTRASONIC NONDESTRUCTIVE TESTING

MADE IN GERMANY

SONOTEC 
ULTRASONIC SOLUTIONS

SONOGRID CORROSION MANAGEMENT SOFTWARE

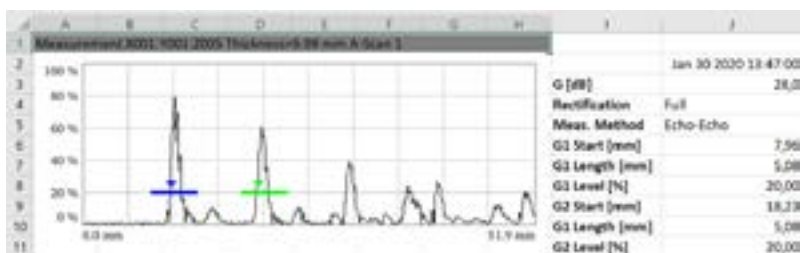


- Colour coded linear, 2D and 3D matrix creation including micro grids
- Grid copy function with possibility to edit its parameters
- Easy data collection of measurement values and attachments
- Live comparison function and corrosion rate estimation
- Customizable test report in XLSX format and optional SQLite database
- Device setup list for all collected measurement points
- Unlimited text length for comments



Efficient and reliable data collection with colour coded grid visualization

	A	B	C	D	E	F	G	H	I	J	K
1	Th [mm]	2001	2002	2003	2004	2005	2006	2007	2008	2009	2018
2	X000-Y001	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
3	X000-Y002	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96
4	X000-Y003	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96
5	X000-Y004	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97
6	X000-Y005	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97
7	X000-Y006	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
8	X000-Y007	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
9	X000-Y008	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
10	X000-Y009	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
11	X000-Y010	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96
12	X000-Y001	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
13	X000-Y002	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96
14	X000-Y003	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96
15	X000-Y004	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97
16	X000-Y005	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97	6.97
17	X000-Y006	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
18	X000-Y007	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
19	X000-Y008	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95



Direct data export and reporting with MS-Excel including linked A-scans, B-scans, comments, setups, etc.

BEST IN CLASS PERFORMANCE

Custom function softkey 2x LEMO-00 for connecting probes from all manufacturers SONO-ID for wireless probe recognition and setup transfer



Optional heavy duty case and working harness for hands-free operation

High resolution anti-glare 5" graphic display (800 x 480 px), colour scheme selectable

Setup, probe, material and calibration block database

Customizable display of measurement values

Rotary knob and 4 soft keys – for rapid, streamlined operation and easy access to all functions in left- and right-handed usage

Largest A-scan presentation in its class: 4,7" diagonal

Optimal readability even in direct sunlight

Robust aluminum housing IP67 certified

Powerful 400V pulser for highest penetration capabilities

Short cut function for fast access to all relevant settings

Drop tested according to EN 60068-2-31 (2008); 20 Drops

Mini USB port | microSD | Power supply



POWERFUL SOFTWARE FUNCTIONS

- A and B-scan
- Single and dual element probe operation
- Single-echo and echo-echo mode
- Automatic gate, range and gain control
- Differential wall loss
- V-path error correction
- Through-coat measurement
- Basic and expert mode (password protected)
- Temperature compensation
- Multi-layer measurement
- Sound speed measurement
- Dual element probe zeroing in air*1

VIDEO TUTORIALS

Watch our SONOWALL 70 video tutorials and get to know more about its broad functions:



<https://www.youtube.com/SONOTECCmbH>

FLAW DETECTION MODE LITE



The SONOWALL 70 features basic flaw detection capabilities including:

- Trigonometric calculations
- The use of angle beam probes
- AVG / DGS
- DAC with TCG
- AWS D1.1
- Backwall echo attenuation

ACCESSORIES

Useful range of accessories

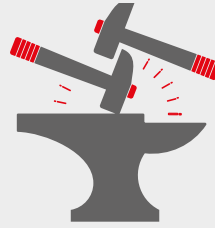
- Handstrap for ergonomic single hand operation
- Desktop stand - ideal for inside use and calibrations
- 4-point working harness for longterm operation (optional)
- Transport & storage case including space for accessories
- Heavy Duty protection case for harsh environments (optional)
- Calibration blocks, cables and probes (optional)

*1: for SONSOCAN and most third party probes





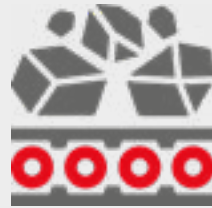
Corrosion and erosion measurement, e.g. oil and gas industry



Quality control of forgings and castings, e.g. heavy industry



Inspection of steel constructions, e.g. shipbuilding industry



Abrasion testing of conveyor belts, e.g. mining industry

MATERIALS: METALS | GFRP & CFRP | PLASTICS | RUBBER ETC.

SONOSCAN PROBES

We offer a large selection of SONOSCAN standard single element and dual element probes as well as SONO-ID probes for wireless probe detection.

SONOTEC also specializes in customized transducers - send us your application!



STANDARD PROBES FOR WALL THICKNESS GAGING

TYPE		FREQUENCY	ELEMENT SIZE	MEASUREMENT RANGE
PL1	Single element probe	1 MHz	Ø 24 mm	20 to 5000 mm
PL2	Single element probe	2 MHz	Ø 24 mm	15 to 2000 mm
PS2	Single element probe	2 MHz	Ø 10 mm	6 to 1000 mm
TS2	Dual element probe	2 MHz	Ø 11/2 mm	5 to 800 mm
TL2	Dual element probe	2 MHz	7 x 18 mm	10 to 1500 mm
PS4	Single element probe	4 MHz	Ø 10 mm	4 to 600 mm
TS4	Dual element probe	4 MHz	3.5 x 10 mm	2 to 500 mm
TS5	Dual element probe	5 MHz	Ø 9/2 mm	1 to 400 mm
TS5 P	Probe with pipe adapter	5 MHz	Ø 9/2 mm	3 to 200 mm
TS5 H	High temperature probe	5 MHz	Ø 8/2 mm	3 to 200 mm
TXS7.5	Dual element probe	7.5 MHz	Ø 5/2 mm	0.8 to 50 mm
PXS10	Single element probe	10 MHz	Ø 6 mm	0.6 to 100 mm
PXS15	Single element probe	15 MHz	Ø 5 mm	0.6 to 25 mm

Standards	DIN EN 12668-1, ASTM E 1324, ASTM E 317, DIN EN 15317 (optional)
Operating temperature	-20 to +60 °C
Screen	5" TFT Screen, 800 x 480 Pixel, 60 Hz
Measurement methods	Single-Echo, Echo-Echo
Size (W x H x D)	195 x 115 x 40 mm
Weight	990 g
Housing	Aluminum
Protection class	IP67
Battery	Li-Ion, up to 12 hours operation
Wireless probe recognition	For selected SONOSCAN Probes with SONO-ID
Internal memory	8 GB
External memory	MicroSD card up to max. 128 GB
Reporting	Data logger CSV Screenshots JPEG, PNG SONOGRID XLSX, SQLite database (optional)
Password protection	For expert mode (access to all settings and basic mode configuration)
Transmitter	
Bandwidth	0.5 to 15 MHz
Pulse	Negative rectangle (single pulse)
Pulse width	20 to 500 ns, in 5-ns-steps
Voltage	0 to 400 V, in 10-V-steps
Damping	50 Ohm; 400 Ohm
Receiver	
Dynamic range	Up to 110 dB
Amplifier bandwidth	0.2 to 20 MHz
Digital filters	1/2/4/5/7.5/10/15/0.5-20 MHz (EN 12688-1 certified)
Averaging	2x, 4x, 8x
Input impedance	500 Ohm (in T/R-mode)
Probe compatibility	Single and dual element (manufacturer independent)
Resolution	Up to 0.001 mm
Scan	100 MSps @ 12 Bit
Gates	2 independant gates (including automatic positioning) Gate 3+4 only available in multilayer mode
Measurement range	Up to 10 000 mm (20 000 mm with screen shift)
Probe connection	2x LEMO 00 (IP67)

FAST SERVICE & PROFESSIONAL SUPPORT

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SONOTEC 
Certified according to ISO 9001

Subject to change without notification!
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