

SONOGRID

CORROSION MANAGEMENT SOFTWARE

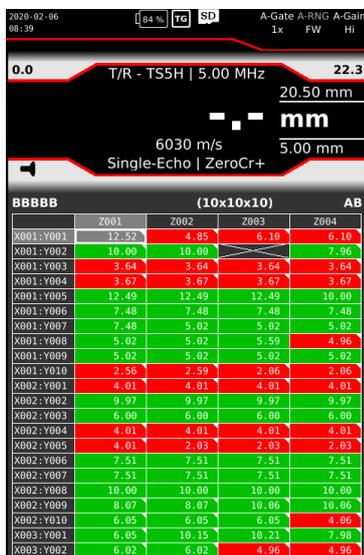
Corrosion and erosion defects are among the most common safety risks and reasons for production break downs in industrial environments such as refineries, pipeline networks, chemical plants, offshore platforms, storage tanks, etc. In order to maintain assets and to avoid hazards, measurements are typically recorded frequently at pre-defined points creating a virtual grid on the surface of the test object.

To help collect, organize and report readings efficiently, the **SONOWALL 70 thickness gage** can be equipped with the SONOGRID corrosion management software. The operator is enabled to collect data reliably by the visualization of test paths through linear, 2D or 3D grids. Via direct data transfer to MS-Excel transparent measurement reports with A-scans, B-scans, text comments and setup lists can be generated.

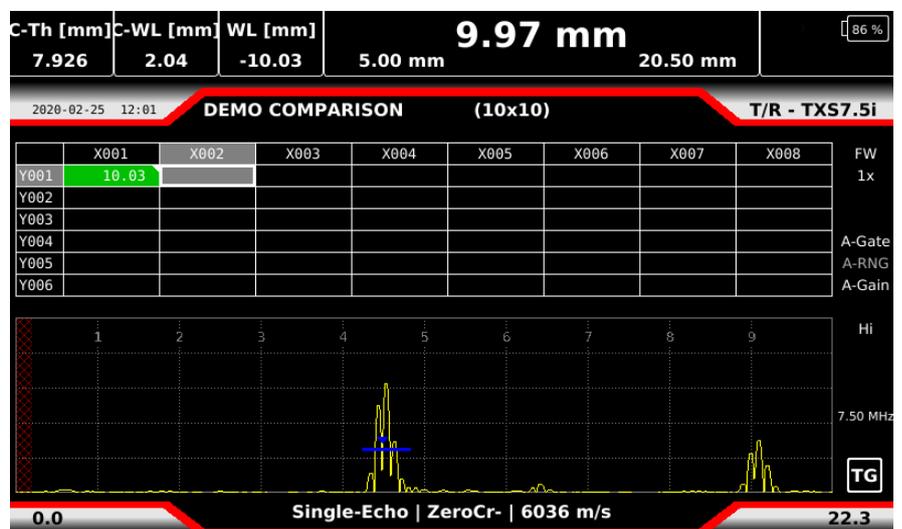
- EFFICIENT AND RELIABLE MATRIX DATA COLLECTION
- VISUALIZATION OF TEST PATH THROUGH 3D GRID CREATION
- LIVE COMPARISON FUNCTION AND CORROSION RATE ESTIMATION
- REPRODUCIBILITY THROUGH GRID COPY FUNCTION AND DEVICE SETUP
- EASY ATTACHMENT OF A-/B-SCANS AND UNLIMITED TEXT COMMENTS
- DIRECT DATA EXPORT TO MS-EXCEL AND CUSTOM REPORT GENERATION

STRUCTURED DATA COLLECTION

- Matrix creation | Linear, 2D and 3D for efficient data collection and test path visualization
- Color coding | Visual indication of material condition and exceeded tolerances
- Live comparison | Each point can be compared to previously logged point to estimate corrosion rates



Efficient and reliable data collection with color coded grid visualization



Comparison mode including comparison thickness (vC-TH), comparison wall loss (C-WL) and current wall loss from nominal value (WL)

DATA LOGGING & POST PROCESSING

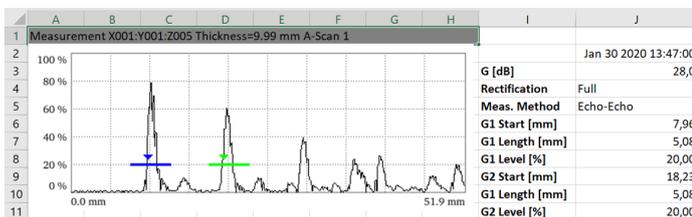
- Data export and reporting | Excel (.xlsx file format) and optional SQLite database
- Setup information | Detailed device settings for each logged point for maximum transparency
- Unlimited text length | Clear labeling and description of measurement points

	A	B	C	D	E	F	G	H	I	J	K
1	Th [mm]	Z001	Z002	Z003	Z004	Z005	Z006	Z007	Z008	Z009	Z010
2	X001:Y001	0,50	4,85	6,10	6,10	9,99	10,00	10,00	10,00	10,00	10,0
3	X001:Y002	10,00	10,00	7,96	7,96	7,96	7,96	7,96	3,64	3,6	
4	X001:Y003	3,64	3,64	3,64	3,64	3,64	6,12	6,12	6,10	6,10	6,6
5	X001:Y004	3,67	3,67	3,67	3,67	3,67	3,67	3,67	4,23	12,49	12,4
6	X001:Y005	12,49	12,49	12,49	10,00	10,00	10,00	10,00	10,00	10,00	10,0
7	X001:Y006	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,4
8	X001:Y007	7,48	5,02	5,02	5,02	5,02	5,02	5,02	5,02	5,02	5,0
9	X001:Y008	5,02	5,02	5,59	4,96	4,96	5,02	5,17	5,02	5,02	5,0
10	X001:Y009	5,02	5,02	5,02	5,02	1,99	2,00	2,00	1,97	2,5	
11	X001:Y010	2,56	2,59	2,06	2,06	2,06	2,06	2,06	2,06	2,65	2,0
12	X002:Y001	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,0
13	X002:Y002	9,97	9,97	9,97	9,97	9,97	7,96	7,96	7,97	6,0	
14	X002:Y003	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	4,0	
15	X002:Y004	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,0
16	X002:Y005	4,01	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,0

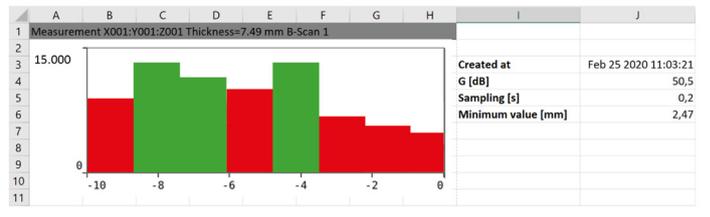
1	Legend	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
2	A	A-Scan is attached.																			
3	B	B-Scan is attached.																			
4	#	µ-Grid is attached.																			
5	*	Comment is attached.																			
6	T	Temperature compensation was enabled during measurement.																			
7	<	Measured value is lower than lower limit.																			
8	>	Measured value is greater than upper limit.																			
9	-	No measurement possible (obstruction, corrosion, etc.).																			
10		Location	Thickness [mm]	Flags	Meas. Method	Measuring Mode	c [m/s]	G [dB]	Nominal Value	Lower Limit	Upper Limit	M1 S, J [mm]	M2 H, L [mm]	M3 c [m/s]	Comment	A-Scan	B-Scan	µ-Grid	Setup	Created at	
11		X001:Y001:Z001	0,50	<	Single-Echo	Zero Crossing	5920	642	15,00	20,00	25,00	0,50	27	5920							Jan 30 2020 08:03:
12		X001:Y001:Z002	4,85	<	Single-Echo	Zero Crossing	5920	645	15,00	20,00	25,00	4,85	28	5920							Jan 30 2020 08:03:
13		X001:Y001:Z003	6,10	<	Single-Echo	Zero Crossing	5920	40,0	15,00	20,00	25,00	6,10	77	5920							Jan 30 2020 13:43:
14		X001:Y001:Z004	5,10	<	Single-Echo	Zero Crossing	5920	44,0	15,00	20,00	25,00	6,10	63	5920							Jan 30 2020 13:43:
15		X001:Y001:Z005	9,99	A	Echo-Echo	Zero Crossing	5920	28,0	5,00	20,00	20,50	10,19	78	5920							Jan 30 2020 13:47:
16		X001:Y001:Z006	10,00	A	Echo-Echo	Zero Crossing	5920	28,0	5,00	20,00	20,50	10,18	80	5920							Jan 30 2020 13:47:
17		X001:Y001:Z007	7,96	A	Echo-Echo	Zero Crossing	5920	28,0	5,00	20,00	20,50	10,18	79	5920							Jan 30 2020 13:47:
18		X001:Y001:Z008	7,96	A	Echo-Echo	Zero Crossing	5920	28,0	5,00	20,00	20,50	10,18	80	5920							Jan 30 2020 13:47:

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

- Attachments for each point | Micro-grids, comments, A-Scans, B-Scans



A-Scan



B-Scan

SONOGRID & SONOWALL 70

In perfect combination for corrosion testing and reporting



- Certification according to EN or ASTM standard
- Compact design and powerful performance
- Aluminum housing with IP67
- SONO-ID for wireless probe recognition



SONOWALL 70

- 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

SONOTEC preserves the right to change technical specifications without further notice. (Rev. 1 / 2020-03-06)

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SONOTEC 
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