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, ultrasonic thickness 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 ultrasonic thickness gage** can be equipped with the SONOGRID corrosion management software.

SONOGRID

CORROSION MANAGEMENT SOFTWARE FOR THE SONOWALL 70

- 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 LIST
 - 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

2020-02-06 08:39	[8	4 % TG SD	A-Gati 1x	e A-RNG A-Gair FW Hi										
0.0	T/R - 1	TS5H 5.0		22.3										
			2	0.50 mm										
			r	– mm										
		6030 m/s	J	.00 mm										
-	Single	e-Echo Ze	eroCr+											
•	_	_		_										
BBBBB		(10	x10x10)	AB										
	Z001	Z002	Z003	Z004										
X001:Y001	12.52	4.85	6.10	6.10										
X001:Y002	10.00	10.00	$>\!\!\!\sim$	7.96										
X001:Y003	3.64	3.64	3.64	3.64										
X001:Y004	3.67	3.67	3.67	3.67										
X001:Y005	12.49	12.49	12.49	10.00										
X001:Y006	7.48	7.48	7.48	7.48										
X001:Y007	7.48	5.02	5.02	5.02										
X001:Y008	5.02	5.02	5.59	4.96										
X001:Y009	5.02	5.02	5.02	5.02										
X001:Y010	2.56	2.59	2.06	2.06										
X002:Y001	4.01	4.01	4.01	4.01										
X002:Y002	9.97	9.97	9.97	9.97										
X002:Y003	6.00	6.00	6.00	6.00										
X002:Y004	4.01	4.01	4.01	4.01										
X002:Y005	4.01	2.03	2.03	2.03										
X002:Y006	7.51	7.51		7.51										
X002:Y007	7.51	7.51		7.51										
X002:Y008	10.00	10.00	10.00	10.00										
X002:Y009	8.07	8.07	10.06	10.06										
X002:Y010	6.05	6.05	6.05	4.06										
X003:Y001	6.05	10.15	10.21	7.98										
X003:Y002	6.02	6.02	4.96	4.96										

Efficient and reliable data collection with color coded grid visualization

C-Th in 7.92		[mm Wi .04 -	mm] 10.03	5.00 mm	9.97		20.50 mn	n	[86 %
2020-0	92-25 12:01	DEM	О СОМРА	RISON	(10x10))		T/R - T)	(S7.5i
	X001	X002	X003	X004	X005	X006	X007	X008	FW
Y001	10.03								1x
Y002									
Y003								L ().
Y004 Y005								\vdash	A-Gat
Y005									A-Rive
1000									
8				i i 4 5					Hi
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×				в					7.50.14
*									7.50 MF
×								A^	
8				A''h					ΤG
			Singl	e-Echo Ze					
0.0			onigi			56-III/5			22.3

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

SONOTEC 🔀

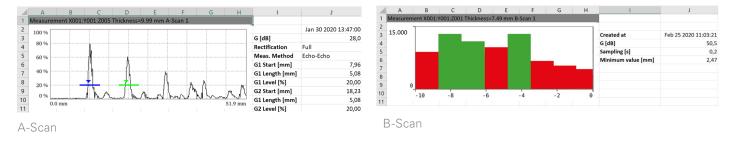
DATA LOGGING & POST PROCESSING

- 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

	А	В	C	D	F	F	G	н	1	1	К	A lb.	8	С	D	E	F	G	н	1	J	K	ι	м	N	0	Р	Q	R	S
		-	~									1 Legend	A-Scan is att																	
1	Th [mm]	Z001	Z002	Z003	Z004	Z005	Z006	Z007	Z008	Z009	Z010	3 8	B-Scan is att																	
2	X001:Y001	0,50	4,85	6,10	6,10	9,99	10,00	10,00	10,00	10,00	10,0	4 #	µ-Grid is atta	ched.																
3	X001:Y002	10,00		\sim			7,96			3.64	3.6	5 •	Comment is Temperature			and the state of the state														
				\leq								7 4	Measured v				ig measuren	nent.												
4	X001:Y003	3,64	3,64	3,64	3,64	3,64	6,12	6,12	6,10	6,10	6,6	8 >	Measured v																	
5	X001:Y004	3,67	3,67	3,67	3,67	3,67	3,67	3,67	4,23	12,49	12,4	9	No measure	nent possib	le (obstru	ction, corror	sion, etc.).													
6	X001:Y005	12.49	12.49	12.49	10.00	10.00	10.00	10.00	10.00	10.00	10.0	10 Location	Thickness	Flags N	Aeas. 1	Measurine	c [m/s]	GN	Iominal	Lower	Upper	M15 1	M2 H 1	M3 c	Comment	AuScan	B-Sran I	u-Grid Se	etun	Created at
-			7.40	7.40		7.40	7.40	7.40	7.40			11	[mm]		ethod	Mode			Value	Limit	Limit	(mm)	[%]	[m/s]						
	X001:Y006	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,4	X001:Y001:Z001	0,50	< Sing	de-Echo	Zero	5920	64,0	15,00	20,00	25,00	0,50	27	5920				2	la.	an 30 2020 08:03:-
8	X001:Y007	7,48	5,02	5,02	5,02	5,02	5,02	5,02	5,02	5,02	5,0	12 X001:Y001:2002		e Sine	fle-Echo	Crossing Zero	5030	64.5	15.00	20.00	25.00	4.85	28	5920				_		an 30 2020 08:03:
9	X001:Y008				4.96	4.96		5.17				13	4,65	* 5m		Crossing	5920	04,5	15,00	20,00	25,00	4,85	28	5920				*	14	1 50 2020 08:05::
10	X001:Y009					5.02	1,99	2.00	2,00	1,97		X001:Y001:2003	6,10	< Sing	ple-Echo	Zero	5920	40,0	15,00	20,00	25,00	6,10	77	5920				3	Ja	an 30 2020 13:43:1
10												14 X001;Y001;Z004		e Sine	fle-Echo	Crossing		44.0	15.00	20.00	25.00	6.10	63	5920				-	-	
11	X001:Y010	2,56	2,59	2,06	2,06	2,06	2,06	2,06	2,06	2,65	2,0	15	6,10	< Sing		Zero Crossing	5920	44,0	15,00	20,00	25,00	6,10	63	5920				2	, set	an 30 2020 13:43:
12	X002:Y001	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,0	X001:Y001:2005	9,99	A Ech	o-Echo	Zero	5970	28,0	5,00	20,00	20,50	10,19	78	5970		1		4	Ja	an 30 2020 13:47:1
13	X002:Y002	9.97	9.97	9.97	9.97	9.97					6.0	16 001:0001:2006	10.00	A Ech	o-Echo	Zero	5970	28.0	5.00	20.00	20.50	10.18	80	5970		2		4	Ja	an 30 2020 13:47:1
												17				Crossing												- E		
14	X002:Y003	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	4,0	X001:Y001:2007	10,00	A Ech	o-Echo	Zero	5970	28,0	5,00	20,00	20,50	10,18	79	5970		3		4	Ja	an 30 2020 13:47:1
15	X002:Y004	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,0	18 X001:Y001:2008	10.00	A Eck	o-Echo	Crossing Zero	5970	28.0	5.00	20.00	20.50	10,18	80	5970				-		an 30 2020 13:47:1
16	X002:Y005	4,01	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,0	19	10,00	n		Crossing	3970	20,0		20,000	20,30	10,10	00	3,770		2		2 P	1.4	1 30 2020 23/1/3

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



SONOGRID & SONOWALL 70

The perfect combination for corrosion testing and reporting made in Germany



- Color 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 / 2020-03-17)

SONOWALL 70

10.00

SALES & SUPPORT

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Certified according to ISO 9001 & EN ISO 13485