

Corrosion Management Software

SONOGRID

For SONOWALL 70

MADE IN GERMANY

Nondestructive Testing

Corrosion Management Software



High Temperature Corrosion
Testing up to 550 °C.

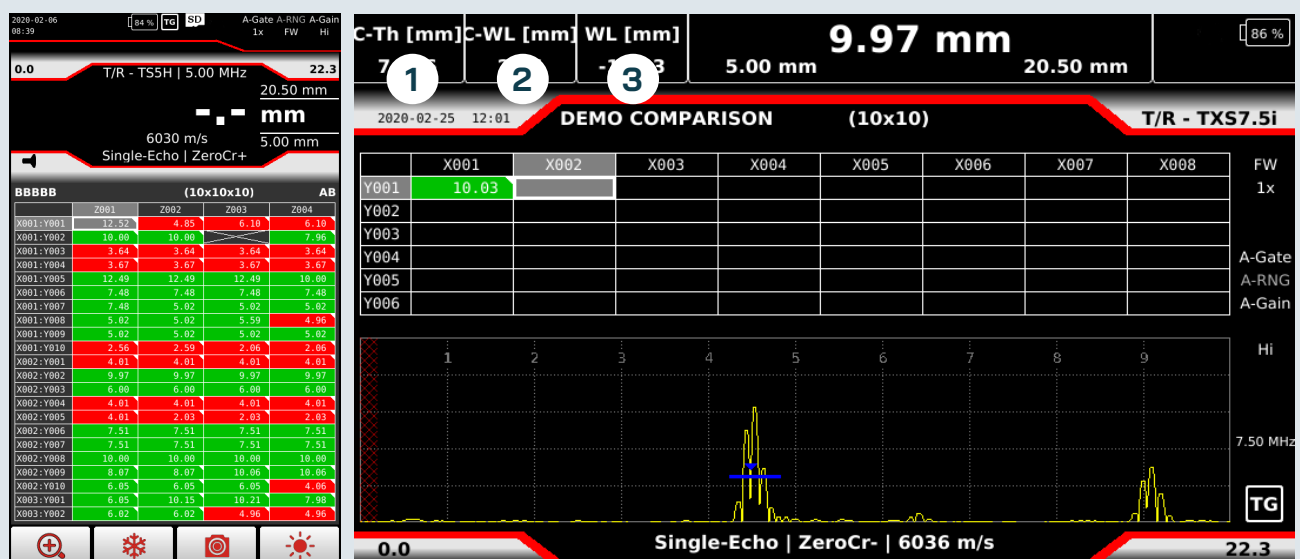
Corrosion and erosion defects are among the most common safety risks and reasons for production break downs in industrial environments such as refineries, pipeline networks, chemical plants, offshore platforms, storage tanks, etc. In order to maintain assets and to avoid hazards, ultrasonic thickness 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.

- 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



1 Comparison thickness (C-TH)

3 Current wall loss from nominal value (WL)

2 Comparison wall loss (C-WL)

Data Logging and Post Processing

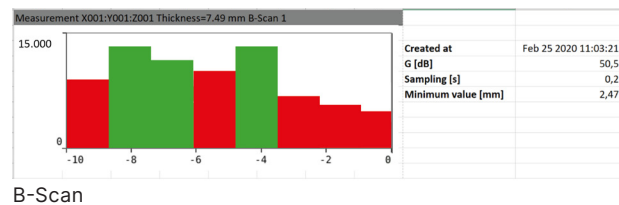
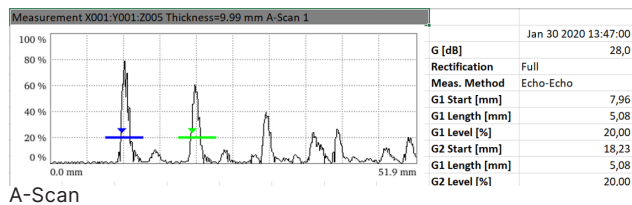
- **Data export and reporting:** Excel (.xlsx file format) and optional SQLite database
- **Setup information:** Detailed device settings for each logged point for maximum transparency
- **Unlimited text length:** Clear labeling and description of measurement points

Th [mm]	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
X001-Y001	0,50	4,85	6,10	6,10	9,99	10,00	10,00	10,00	10,00	10,00
X001-Y002	10,00	10,00		7,96	7,96	7,96	7,96	7,96	3,64	3,64
X001-Y003	3,64	3,64	3,64	3,64	3,64	6,12	6,12	6,10	6,10	6,66
X001-Y004	3,67	3,67	3,67	3,67	3,67	3,67	3,67	4,23	12,49	12,49
X001-Y005	12,49	12,49	12,49	10,00	10,00	10,00	10,00	10,00	10,00	10,00
X001-Y006	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,48	7,48
X001-Y007	7,48	5,02	5,02	5,02	5,02	5,02	5,02	5,02	5,02	5,02
X001-Y008	5,02	5,02	5,96	4,96	4,96	5,02	5,17	5,02	5,02	5,02
X001-Y009	5,02	5,02	5,02	5,02	5,00	1,99	2,00	2,00	1,97	2,56
X001-Y010	2,56	2,59	2,06	2,06	2,06	2,06	2,06	2,06	2,65	2,03
X002-Y001	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01
X002-Y002	9,97	9,97	9,97	9,97	9,97	7,96	7,96	7,96	7,97	6,56
X002-Y003	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	4,01
X002-Y004	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01	4,01
X002-Y005	4,01	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
X002-Y006	7,51	7,51	7,51	7,51	7,51	7,51	7,51	7,51	7,51	7,51
X002-Y007	7,51	7,51	7,51	7,51	7,51	7,51	7,51	10,00	10,00	10,00
X002-Y008	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00

Location	Thickness [mm]	Flags	Meas. Method	Measuring Mode	c [m/s]	D [mm]	Nominal Value	Lower Limit	Upper Limit	M1 S.L. [mm]	M2 H.L. [mm]	M3 c [m/s]	Comment	A-Scan	B-Scan	μ-Grid	Setup	Created at
X001-Y001-2001	0,50	+	Single Echo	Zero Crossing	5920	64,0	15,00	20,00	25,00	6,10	27	5920						Jan 30 2020 08:03:45
X001-Y001-2002	4,85	+	Single Echo	Zero Crossing	5920	64,0	15,00	20,00	25,00	4,85	28	5920						Jan 30 2020 08:03:54
X001-Y001-2003	6,10	+	Single Echo	Zero Crossing	5920	64,0	15,00	20,00	25,00	6,10	77	5920						Jan 30 2020 13:43:04
X001-Y001-2004	6,10	+	Single Echo	Zero Crossing	5920	44,0	15,00	20,00	25,00	6,10	63	5920						Jan 30 2020 13:43:28
X001-Y001-2005	9,99	+	Single Echo	Zero Crossing	5920	28,0	5,00	20,00	20,50	10,19	78	5920						Jan 30 2020 13:47:00
X001-Y001-2006	10,00	+	Single Echo	Zero Crossing	5920	28,0	5,00	20,00	20,50	10,18	80	5920						Jan 30 2020 13:47:00
X001-Y001-2007	10,00	+	Single Echo	Zero Crossing	5920	28,0	5,00	20,00	20,50	10,18	80	5920						Jan 30 2020 13:47:01
X001-Y001-2008	10,00	+	Single Echo	Zero Crossing	5920	28,0	5,00	20,00	20,50	10,18	80	5920						Jan 30 2020 13:47:01

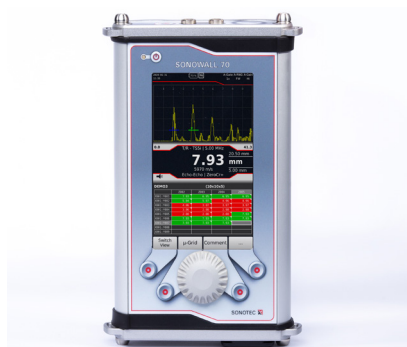
Direct data export and reporting with MS-Excel including linked A-scans, B-scans, comments, setups and statistics

- **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, 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 report in XLSX format and optional SQLite database
- Device setup list for all collected measurement points
- Unlimited text length for comments

SONOGRID is compatible with the SONOWALL 70 High Temperature Corrosion Kit including:

- TS5H high temperature probe (up to 550°C)
- Armored cable set with probes extension
- Heavy duty impact protector set

Contact and Support

SONOTEC GmbH
Nauendorfer Str. 2
06112 Halle (Saale)
Germany

+49 (0)345 / 133 17-0
sonotec@sonotec.de
www.sonotec.eu
Certified according to ISO 9001

SONOTEC® is a registered trademark