

# Sonatest Data Management Software

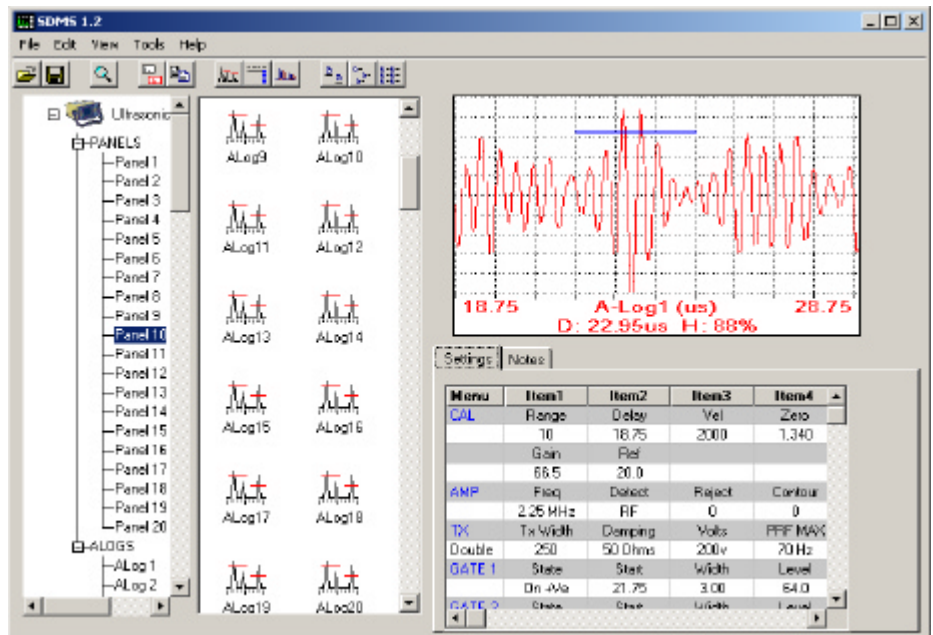
SDMS, is a memory management tool to interface with Sonatest Digital Flaw Detectors, from the Sitiescan 130 to the latest Masterscan 340. The software allows a fast learning curve, and reduces the amount of support needed.

SDMS is not a reporting tool, hence there are no printing facilities. But SDMS provides the user with copy to clipboard abilities, giving maximum flexibility. Anyone can therefore produce their own report in their favourite reporting tool, word-processor, spreadsheet, or presentation package.

The last aim of SDMS, is consistency in memory locations, and parameter values. The location of memory items is constant between transfers, avoiding confusion.

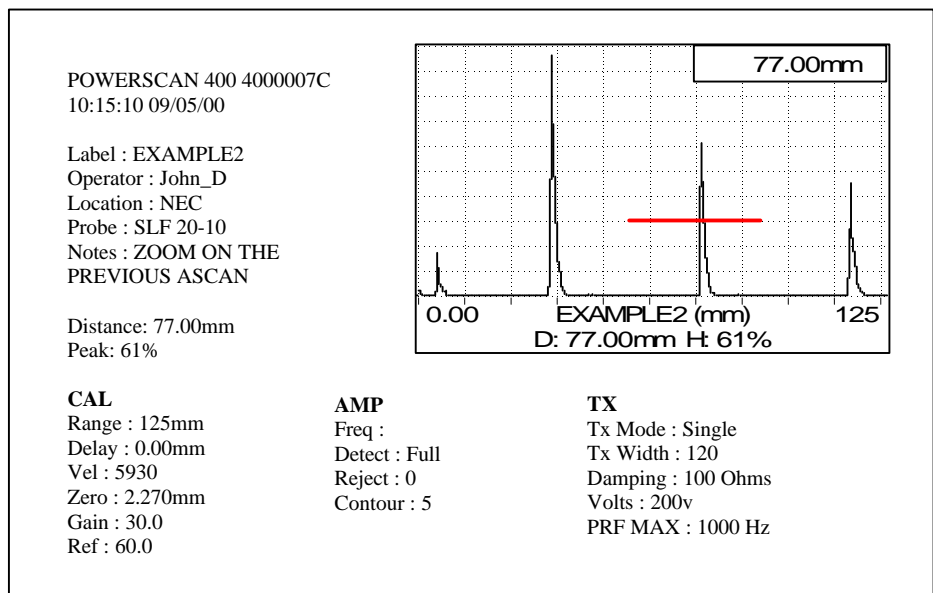
## Main features:

- Drag and Drop operations initiate data transfer between the Flaw Detector and the PC.
- A-Scan and Calibration Copy into Clipboard.
- Notes section editable
- Control Privilege memory access from SDMS (SS140, 240 and MS 340 Only)
- Currently Available in English, French and Spanish.
- Conversion tool, for WinDFD 1.x files format
- Help system, with FAQs & a quick tour of SDMS.



## Hardware & Software Requirements:

- Most Sonatest Digital Ultrasonic Flaw Detector.
- One Serial Cable
- One Free Serial Port on the Computer.
- Intel PC Based Computer ( Pentium class or over ).
- Windows 95/98(SP1)/2000 or NT4.
- 64MB RAM Recommended.
- 3 MB of Free Disk Space.
- CD ROM Drive.
- Internet Explorer 4 or higher, or Netscape 4.x.
- Microsoft Office 97 or Higher.



## Report Format Example



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No. Q5036



# Excel Thickness Logging Add-In

## What is the Thickness Logging Add-In?

The Sonatest range of Digital Ultrasonic Flaw Detectors all have the capability to perform Thickness logging. 2000 thicknesses can be recorded into memory. Until now, few people have used all the capability offered by their set, due to lack of interface support between a PC and the Set.

The aim of this Excel Spreadsheet Add-In is to provide the user with an easy interface between his set and the PC, for retrieving thickness logging. Also, for the first time, is the possibility to use the Thickness Sequence Logging available on the SITESCAN 130, 230, 140, 240 and Masterscan 340. This facility is only available via a serial communication between the set and a computer.

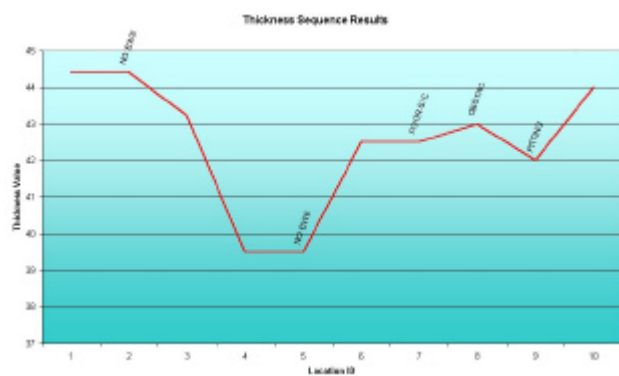
## SEQUENCE MODE

This mode is used to Upload Labels and Download sequence thickness readings from the ultrasonic set. The labels are used by some operators, to remind them which locations to test in a logical order. While taking measurements, the operator has the ability to add some notes. These notes will be downloaded back to the spreadsheet unit, along with the unit of measure.

A logical use of this mode is to first UPLOAD the labels to the Ultrasonic set, to build a working sequence for the operator. The operator will take measurements, and then back at the office, they will DOWNLOAD the results back into Excel.



Label Display on The Ultrasonic Set



Sequence Mode Result Example

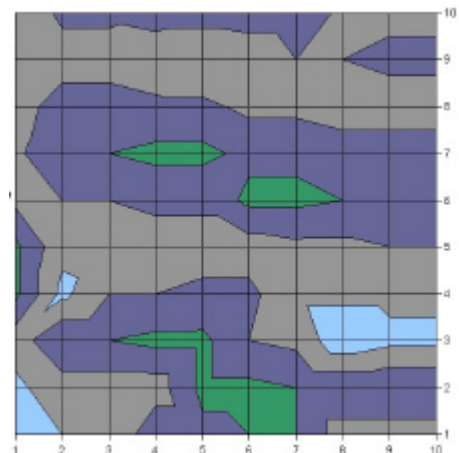
## NUMERIC MODE

The Numeric mode is compatible with the full range of Sonatest Digital Flaw Detectors.

This mode is used to download ONLY from the ultrasonic set in block, location, thickness, IDs format. The only choice available, is which of the 14 available Blocks you wish to download into Excel.

	Location	1	2	3	4	5	6	7	8	9	10	11
1	Thicknesses	44.4	44.4	43.2	38.5	38.5	42.8	42.8	43	42	44	
2		44	42	40	44.5	42.5	42	48	41	43	41.5	
3		44	42	40	42	43	42	48	41	43	41.5	
4		40.5	45	38.5	42	43	41.5	38.5	41.5	43.5	41	
5		40.5	38.5	38.5	41.5	43	41.5	38.5	41.5	44	41	
6		40	38.5	42	41.5	43	38.5	40.5	42.5	44	43.5	
7		40	40	42.5	43.5	42.5	38.5	40.5	40.5	42	43.5	
8		42	40	43.5	43.5	42.5	48	41	43	42	42.5	
9		42	40	44.5	43.5	42	48	41	43	41.5	42.5	
10		42	40	44.5	43.5	42	48	41	43	41.5	42.5	
11		42	40	44.5	43.5	42	48	41	43	41.5	42.5	

Excel Spreadsheet with thickness



Surface Plot Example possible with the numeric mode



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