

# DMS Go+

The ultra-portable,  
ultra-powerful  
thickness gauge.



Featuring intuitive, easy-to-use arrow-keypad control, powerful data management and the latest industrial electronics to provide accurate, reliable and comprehensive thickness inspection data. The DMS Go+ thickness gauge that can be easily converted into a comprehensive flaw detector with a simple software upgrade.



# DMS Go+

## Designed and developed with the user in mind

### Operational excellence

The DMS Go+ offers a comprehensive, hand-held solution to thickness measurement, data recording and data management in a wide range of applications and environments.



### → High performance thickness measurement

- Zero cross measurement technique for high measurement stability and reliability
- Automatic gain control for excellent repeatability and corrosion monitoring.
- Built-in temperature compensation for accurate measurement up to 540°C (1000°F)
- Multiple calibration and zeroing modes for repeatable accuracy.
- Multiple measurement modes, including thickness, A-scan, B-scan, Min/max and differential.

### → High capacity data recorder and compatibility with powerful data management systems

- On-board data recorder, with capacity of hundreds of thousands of thickness readings, with storage of A-scan, B-scan and MicroGrid attachments
- Data can be organized in pre-set, custom or advanced file structures.
- Data transfer is by SD card or via USB port to PC. Data can be transferred in various file formats to allow easy integration with user data management systems.
- Compatible with UltraMate and UltraMate Lite data management programs to allow for comprehensive data analysis and documentation.

### → Ease of use

- Intuitive arrow-keypad for positive digital control of parameters
- One hand operation and one-hand, menu-directed calibration process
- A "Flip" function allows use by both left-handed and right-handed operatives.
- A large, 800x480 pixel, display screen, ergonomically sized to reduce eye-strain, which can be adjusted to provide optimum visibility in various ambient light conditions.
- Small size, lightweight (870g, 1.9lb), robust construction to IP67 for operation in harsh environments.
- Battery allows up to 10 hours operation and can be re-charged on- or off-board.



## A wide range of applications

The DMS Go+ is suitable for thickness measurement in a wide variety of applications throughout the industrial and process spectrum. It is especially applicable for corrosion measurement and monitoring, even on coated components and structures and at high temperatures.

Typical applications include:

### Oil & Gas

- Inspection and monitoring of corrosion in tubes, vessels and tanks
- Measurement of remaining wall thickness through paint coatings

### Power Generation

- Inspection of complex geometry tubes
- Monitoring of boiler efficiency by measuring oxide scale in boiler tubes with special probe OSS-10

### Aerospace

- Maintenance checks

### Metals Industry

- Thickness measurement of austenitic materials

Optional applications software such as TopCOAT technology, also allows measurement of coating thickness as well as metal thickness, while Auto-V measurement enables thickness to be measured on components with unknown sound velocities, without the need for a calibration block.

## A simple software upgrade adds a comprehensive and versatile flaw detector to the DMS Go+

The DMS Go+ uses the same operating platform and hardware as the state-of-the-art USM Go+ portable flaw detector. This offers high Near Surface Resolution to detect flaws near to the surface, as well as a wide Pulse Repetition Frequency range, allowing it to be used for inspecting forged parts as well as welds.

An up-graded DMS Go+ means that personnel now need to carry only one instrument to perform accurate and reliable thickness measurement and flaw detection.



## Technical Specifications of DSM Go+

Display	5 inch, 800 x 480 pixels, 108 x 65 mm (W x H), >200 cd/m <sup>2</sup>
Size (W x H x D)	175 x 111 x 50 mm (W x H x D)
Weight	850 g with battery
Protection class	IP 67
Operating temperature	0 – 55 °C
Battery	Li-Ion, rechargeable, > 8 hours operation time
Power adapter / charger	100 – 240 V AC, 50/60 Hz
Probe connector	Dual Lemo-00 (T/R)
PC interface	Micro USB
Memory card	SD-Card 16 GB max
Datarecorder	100.000 readings per file. Multiple files can be stored on SD card 8 file formats, Attachment of A-Scan, B-Scan and micro grid
Pulser	120 – 250 V, Spike wave, Automatically matched to probe
Puls Repetition Frequency	4, 8 or 16 Hz selectable
Receiver	110 dB dynamic, automatic gain control, Manual –high, -low, -auto
Measurement range	0,4 – 14.000 m/s (0.01 – 551 ")
Units	mm, inch, µs
Digital Display resolution	0,01 mm or 0,1 mm (0.001" or 0.01") selectable
Measurement techniques	Zero crossing, IP to 1st echo, multi echo, TopCoat, Auto-V
Calibration	One-point, Two-point Auto or Manual On-block and Off-block Zero Automatic V-Path correction
Display mode	Thickness and A-Scan, Temperature corrected thickness, B-Scan, Min/Max capture, Differential
Compliance	EN 61010, EN 61326-1, EN 12668 ASTM E 1324, E317, ANSI/NCSL Z 540-1-1994 MIL-STD 45662A, MIL-STD 2154, EN 15317



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