

KRAUTKRÄMER

# 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 Krautkrämer DMS Go+ thickness gauge that can be easily converted into a comprehensive flaw detector with a simple software upgrade.

# Krautkrämer DMS Go+

## Designed and developed with the user in mind

### Operational excellence

The Krautkrämer DMS Go+ offers a comprehensive, handheld 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.

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### A wide range of applications

The Krautkrämer 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 Krautkrämer 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.



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## Technical Specifications of Krautkrämer DMS Go+

Display	5 inch, 800 × 480 pixels, 108 × 65 mm (W x H), > 200 cd/m <sup>2</sup>
Size (W x H x D)	175 × 111 × 50 mm (W × H × 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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