

Contactless Handheld T1000 EMAT Thickness Gauge

Diakont's T1000 EMAT Thickness Gauge conducts accurate thickness measurements on most metals. Measurements can be performed through an air gap or a nonconductive coating (i.e. paint or corrosion). No surface preparation or liquid couplant are required. The gauge package includes transducers for inspection of standard surfaces, and also of weld areas.

Inspection Through Paint Layer

The T1000 utilizes Electromagnetic Acoustic Technology which enables measurement through non-conductive coatings.

High-Precision Measurement on Corroded surfaces

The T1000 works on both clean and corroded surfaces, and reveals internal defects on most metals.

Dynamic Scanning Mode (B-scan)

Thickness can be measured while moving the transducer along the surface, generating a cross-sectional view of the item being inspected.



Advanced Technology

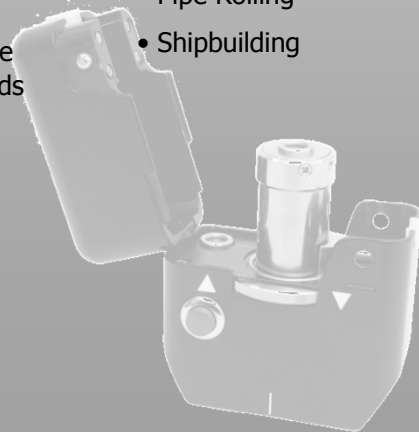
- Measures pipes, tubes, plates, and complicated-geometry items
- Compact probes for various applications
- Real-time thickness digital readout at 40 measurements per second
- Dynamic scanning mode for increased efficiency
- Reveals corrosion and erosion
- Detects surface defects such as thinning, inclusions, and delamination
- Measurement of the anisotropy factor

Easy to Use

- User-friendly interface
- Detailed A-scan and B-scan displays
- Memory storage of more than 5000 readings, and 500 A/B scans
- Backlit LCD display
- PC Connection via USB
- Audible operator feedback
- Preset configuration and adjustable settings for most metals
- Auto-selection between impulse and correlated analysis methods

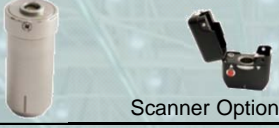


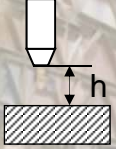

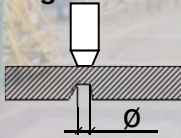
Application Areas

- Oil & Gas Industry
- Nuclear Power Industry
- Utilities
- Aerospace
- Manufacturing
- Pipe Rolling
- Shipbuilding



Specifications

	English	Metric
Thickness Measurement Range	0.07" – 1.18"	2 – 30 mm
Maximum Error	In range 0.079" ... 0.79"	0.1 mm
	In range 0.79" ... 1.18"	0.4 mm
Measurements per Second	40	40
Movement Speed During Dynamic Scanning	0.78" – 1.96"/sec	20 – 50 mm/sec
Maximum Gap between probe and inspected metal	0.078" (Optional 0.12")	2 mm (Optional 3 mm)
Maximum Roughness of Inspected Surface (Rz)	0.015"	400 µm
Minimum Curvature Radius of Inspected Surface	1.18"	30 mm
Non-Volatile Memory Capacity Records	5000	5000
	A-scan/B-scan displays	400/400
Cable Length	7.5"	190 mm
Size	7.4" x 4.7" x 2.6"	187 x 119 x 68 mm
Weight	3.3 lb	1.5 kg
Side Shearing Force of probe	2.2 lb	1.0 kg
Operational Temperature	-4° F – 113° F	-20 – 45° C

Transducer	EMAP-P2-1 (Basic configuration)	EMAP-P2-2 (Option)	EMAP-P1 (Option)
Characteristics	 Scanner Option	 Scanner Option	
Application	General Use	Extra Corrosion	Weld Area Inspection
Gap 	0.07" 2 mm	0.12" 3 mm	0.03" 1 mm
Contact Spot of Transducer 	0.59" 15 mm	0.59" 15 mm	0.39" 10 mm
Minimum Local Thinning Revealed 	0.19" 5 mm	0.31" 8 mm	0.19" 5 mm
Polarization	Linear	Polar	Polar