

## 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

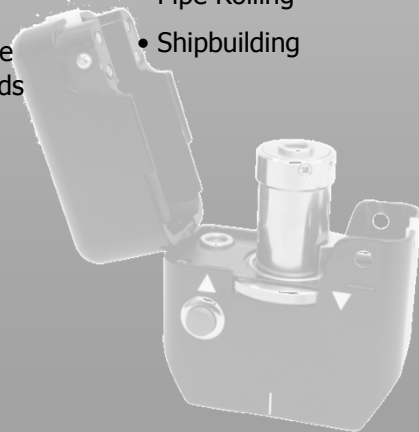
- Measures pipes, tubes, plates, and complicated-geometry items
- Compact probes for various applications
- Real-time thickness digital readout at 40 measurements per second
- Dynamic scanning mode for increased efficiency
- Reveals corrosion and erosion
- Detects surface defects such as thinning, inclusions,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

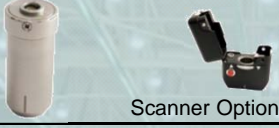


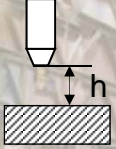

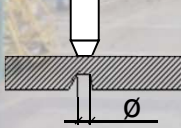
### Application Areas

- 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	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