

MiniTest 4100, 3100, 2100 and 1100 Coating Thickness Gauges



Application

Non-destructive measurement of:

- non-magnetic coatings, e.g. paint and zinc on ferrous substrates
- insulating coatings, e.g. paint and anodizing coatings on non-ferrous metals
- non-ferrous metal coatings on insulating substrates

Performance Features

- wide range of wear-resistant probes which can be adapted to different applications
- universal probe for measurements on steel and non-ferrous metals
- high measuring accuracy and reproducibility
- storage and evaluation of measuring values

MiniTest #140-4100

- Memory structure to be defined freely for users with many different applications
- Statistical evaluation from various groups

MiniTest #140-3100

- Memory structure to be defined variously for users with few applications
- Statistical evaluation from various groups

MiniTest #140-2100

- Storage of measuring values for users with one application
- Statistical evaluation

MiniTest #140-1100

- For simple spot check measurements

Accessories

- Plastic case for safe transport of MiniTest and MiniPrint
- Belt case set
- Rubber protection case with mounting device
- Clear plastic case to protect against dust
- Data printer MiniPrint
- PC evaluation program. MSAVE and MSOFT41
- Mains unit
- 9-V-accumulator battery with charger
- Precision standard

Probe data	F 06	F 3	F 2/90 (internal pipe probe)	F 10	F 20	F 50	
Principle:	magnetic induction						
Measuring range:	0...600 µm	0...3000 µm	0...2000 µm	0...10 mm	0...20 mm	0...50 mm	
Low range resolution:	0,1 µm	0,2 µm	0,2 µm	5 µm	10 µm	5 µm	
Tolerance in % of reading:	± (1...3% + 0,7 µm)	± (1...3% + 1 µm)	± (1...3% + 1 µm)	± (1...3% + 10 µm)	± (1...3% + 10 µm)	± (50 µm + 3%)	
Minimum curvature radius:							
convex:	1,5 mm	1,5 mm	flat	5 mm	10 mm	50 mm	
concave:	5 mm	9 mm	6 mm	16 mm	30 mm	200 mm	
Min. area for measurement:	3 mm dia	5 mm dia	5 mm dia	20 mm dia	40 mm dia	300 mm dia	
Min. base of thickness	0,2 mm	0,5 mm	0,5 mm	1 mm	2 mm	2 mm	
Dimensions in mm:	15 dia x 62	15 dia x 62	8 x 8 x 170	25 dia x 46	40 dia x 65	45 dia x 70	
Probe data							
	FN 2	N 02	N 2	N 2/90 (internal pipe probe)	N 10	N 20	CN 02
Principle:	eddy current						
Measuring range:	0...2000 µm	0...200 µm	0...2000 µm	0...2000 µm	0...10 mm	0...20 mm	10..200 µm
Low range resolution:	0,2 µm	0,1 µm	0,2 µm		10 µm	10 µm	0,2 µm
Tolerance in % of reading:	± (1...3% + 1 µm)	± (1% + 0,5 µm)	± (1...3% + 1 µm)	± (1...3% + 1 µm)	± (1...3% + 25 µm)	± (1...3% + 50 µm)	± (3% + 1 µm)
Minimum curvature radius:							
convex:	1,5 mm	1 mm	1,5 mm	flat	25 mm	25 mm	flat parts only
concave:	10 mm	10 mm	10 mm	10 mm	100 mm	100 mm	flat parts only
Min. area for measurement:	5 mm dia	2 mm dia	5 mm dia	5 mm dia	50 mm dia	70 mm dia	7 mm dia
Min. base of thickness	F: 0,5 mm N: 50 µm	0,1 mm	50 µm	50 µm	50 µm	50 µm	no limit
Dimensions in mm:	15 dia x 62	16 dia x 70	15 dia x 62	13 x 13 x 170	60 dia x 50	65 dia x 75	17 dia x 80