

## **Elcometer 456**

## **Coating Thickness Gauge**

Product Features		■ Standard □ Optional			
	Model E	Model B	Model S	Model T	
Fast, accurate reading rate; 70+ readings per minute					
Repeatable & reproducible measurements					
Easy to use menu structure; in 30+ languages					
Tough, impact, waterproof & dust resistant; equivalent to IP64				-	
Bright colour screen; with permanent back light					
Scratch & solvent resistant display; 2.4" (6cm) TFT					
Large positive feedback buttons					
USB power supply; via PC					
Test certificate					
2 year gauge warranty					
Automatic rotating display; 0°, 90°, 180° & 270°					
Ambient light sensor; with adjustable auto brightness					
Emergency light					
Tap awake from sleep				-	
Gauge software updates¹; via ElcoMaster™ software		-	-	-	
Data output		-	-	-	
USB; to computer		-	-	-	
Bluetooth®; to computer, Android™ & iOS <sup>+</sup> devices			-	-	
On screen statistics		-	-	-	
Number of readings; $\eta$		-	-	-	
Mean (average); $\overline{x}$				-	
Standard deviation; $\sigma$				-	
Highest reading; hi				-	
Lowest reading; /o				-	
Coefficient of variation; COV				-	
Elcometer index value <sup>2</sup> ; EIV				-	
Nominal dry film thickness; NDFT				-	
IMO PSPC; %>NDFT, %>90 <ndft, 90:10="" fail<="" pass="" td=""><td></td><td></td><td></td><td>-</td></ndft,>				-	
High & low limits; definable audible & visual alarms				-	
Number of readings above high limit;				=	
Number of readings below low limit;				=	
Live reading trend graph; in batch mode			-	-	
ElcoMaster™ software & USB cable				-	
Replaceable screen protectors					
Protective case		•	•	-	
Plastic transit case				•	
Integral models; with automatic gauge switch on				•	
Probe type; Ferrous (F), Non-Ferrous (N), Dual (FNF) <sup>3</sup>	F, FNF	F, N, FNF	F, N, FNF	F, N, FNF	
Measurement range	0-1500µm 0-60mils	0-13mm 0-500mils	0-1500µm 0-60mils	0-1500µm 0-60mils	
Separate models; with automatic probe recognition				•	
Probe type; Ferrous (F), Non-Ferrous (N), Dual (FNF)3		F, N, FNF	F, N, FNF	F, N, FNF	
Measurement range; see page 11 for probe selection		0-31mm 0-1220mils	0-31mm 0-1220mils	0-31mm 0-1220mils	

<sup>\*</sup>The Elcometer 456 is extendable within 60 days from date of purchase, free of charge, to 2 years via www.elcometer.com.

Elcometer 456 probes are covered by a 1 year warranty.

<sup>&</sup>lt;sup>1</sup> Internet connection required <sup>2</sup> Elcometer Index Values are used in the automotive industry to assess a coating's overall quality; USA Patent Number US7606671B2

<sup>&</sup>lt;sup>3</sup> FNF Patent Numbers UK: GB2306009B; USA: 5886522 <sup>‡</sup> Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.



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	Model E	Model B	Model S	Model T
On-screen calibration instructions; in 30+ languages				
Multiple calibration methods				
Factory, resets to the factory calibration				
2-point; for smooth and rough surfaces				
1-point; zero calibration				
Zero offset <sup>4</sup> , for calibration according to ISO19840			-	
Predefined calibration & measurement methods			-	
ISO, SSPC PA2, Swedish, Australian				
Automatic calibration; for rapid calibration				
Calibration memory type; gauge (g) or gauge & batch (gb)	g	g	gb	gb
Number of batches; with unique calibrations			1	2,500
Calibration memories; 3 user-programmable memories				
Measurement outside calibration warning				
Calibration lock; with optional PIN code unlock				
Delete last reading				
Gauge memory; number of readings		Last 5	1,500	150,000
Individual batch calibrations; sent to PC via ElcoMaster™				
Limits; user definable audible & visual pass/fail warnings				
Gauge (g) or gauge & batch specific (gb) limits			g	gb
Date and time stamp				
Review, clear & delete batches				
Batch types; normal, counted average, IMO PSPC				
Navsea Mode				
Batch review graph				
Copy batches and calibration settings				
Alpha-numeric batch names; user definable on the gauge				
Scan & auto repeat modes; with Ultra/Scan probe connected				
Fixed batch size mode; with batch linking				

Technical Specification			
Display information	2.4" (6cm) QVGA colour TFT display, 320 x 240 pixels		
Battery type	2 x AA dry cell batteries, rechargeable batteries can also be used		
Battery life	approx 24 hours of continuous use at 1 reading per second <sup>5</sup>		
Gauge dimensions (h x w x d)	141 x 73 x 37mm (5.55 x 2.87 x 1.46")		
Gauge weight (including batteries supplied)	Separate: 161g (5.68oz) Integral: 156g (5.50oz)		
Operating temperature	-10 to 50°C (14 to 122°F)		
Packing List	Elcometer 456 gauge, calibration foils (integrals only), wrist harness, transit case (T), protective case (B, S, T), 1 x screen protectors (S, T), 2 x AA batteries, operating instructions, USB cable (S, T), ElcoMaster™ software (S, T) For separate gauge probe options see page 11		

<sup>■</sup> Standard □ Optional

<sup>&</sup>lt;sup>4</sup> Zero Offset USA Patent Number US6243661

<sup>&</sup>lt;sup>5</sup> Using default settings & lithium batteries, alkaline or rechargeable batteries may differ