elcometer®

Elcometer 224　　　**Digital Surface Profile Gauge**

STANDARDS:
ASTM D 4417-B, SANS 5772,
US Navy NSI 009-32,
US Navy PPI 63101-000

Stores up to 150,000 readings in up to 2,500 alpha numeric batches

Time and date stamped measurements

Accurate, immediate and repeatable results

User replaceable tough tungsten carbide tips

Integral & separate probe options for flat and convex* surfaces

نماینده فروش در ایـــران
کاوشکـــــــــاران
تلفـــــن: ۰۲۱ – ۸۸۶۸ ۵۲۹۷
www.IR‒QC.com

Dust and water resistant rugged design equivalent to IP64

2.4" colour screen provides enhanced reading visibility at all angles

Ergonomic design for comfort during continuous use

Integral or separate probes measure profiles up to 500μm (20mils) on flat or curved surfaces*

elcometer ®

Digital Surface Profile Gauge

Product Features

	Model B	Model T
Fast, accurate reading rate; *50+ 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	■	■
Flat & convex surfaces*	■	■
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 mode	■	■
Gauge software updates[1]; *via ElcoMaster™ software*	■	■
Data output	■	■
USB; *to computer*	■	■
Bluetooth®: *to computer, Android™ & iOS‡ devices*		■
On screen statistics	■	■
Number of readings, η; Mean (average), $\overline{x}$; Standard deviation, σ; Highest reading, hi; Lowest reading, lo; Coefficient of variation, COV	■	■
High & low limits; *definable audible & visual alarms*		■
Number above high limit;		■
Number below low limit;		■
ElcoMaster™ software & USB cable		■
Date and time stamp *for each reading*		■
Replaceable screen protectors	■	■
Protective case	■	■
Plastic transit case	□	■
Measurement range	0-500µm (20 mils)	0-500µm (20 mils)
On-screen calibration instructions; *in 30+ languages*	■	■
Number of batches		2,500
Gauge memory; *number of readings*	Last 5	150,000
Delete last reading	■[#]	■
Limits; *user definable audible & visual pass/fail warnings*		■
Gauge (g) or gauge & batch specific (gb) limits		gb
Batch types; *normal, counted average*		■
Review, clear & delete batches		■
Copy batches and calibration settings		■
Alpha-numeric batch names; *user definable on the gauge*		■
Fixed batch size mode; *with batch linking*		■
Trend graph; *last 20 readings*		■
Review batch graph		■

■ Standard   □ Optional   ‡ Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

[1] Internet connection required   [#] Up to the last 5 readings can be deleted   * Patent applied for   ^Up to 25 readings per minute for the convex probe

[†] The Elcometer 224 is extendable within 60 days from date of purchase, free of charge, to 2 years via www.elcometer.com. Elcometer 224 probes are covered by a 1 year warranty.

elcometer®

Elcometer 224 Digital Surface Profile Gauge

Model Options C

Part Number		Description	Certificate
Integral Gauge	Separate Gauge^		
E224C-BI	E224C-BS	Elcometer 224 Model B Digital Surface Profile Gauge	●
E224C-TI	E224C-TS	Elcometer 224 Model T Digital Surface Profile Gauge	●

Technical Specification

Display information	2.4" (6cm) QVGA colour TFT display, 320 x 240 pixels	
Battery type	2 x AA batteries, rechargeable batteries can also be used	
Battery life	Approximately 24 hours of continuous use at 1 reading per second#	
Minimum Headroom	Integral:	185mm (7.3")
	Separate:	See page 7
Gauge dimensions (h x w x d)	Integral:	168 x 73 x 37mm (5.61 x 2.87 x 1.46")
	Separate:	141 x 73 x 37mm (5.55 x 2.87 x 1.46")
Gauge weight (including batteries)	Integral:	218g (7.69oz)
	Separate:	161g (5.68oz)
Measurement range	0-500μm (0-20mils)	
Probe tip	Tungsten carbide tip 60° angle; Tip Radius: 50μm (2mil)	
Operating temperature	-10 to 50°C (14 to 122°F) Storage temperature -10 to 60°C (14 to 140°F)	
Accuracy & Resolution	Accuracy*: ±5% or ±5μm (±0.2mil); Resolution: 1μm (0.1mil)	
Packing List†	Elcometer 224 gauge, glass zero tile†, 2 x calibration foils†, wrist harness, plastic transit case (T), protective case, screen protector, probe protection cap†, 2 x AA batteries, test certificate, operating instructions, USB cable (T) & ElcoMaster™ software (T)	

Elcometer Digital Inspection Kits

These digital inspection kits have been specifically designed to undertake the three principal inspection requirements in the Protective and Industrial Coatings Industry– climate, surface profile and dry film thickness. Ideal for 'paperless' quality assurance systems the kits come complete with ElcoMaster™ Data Management Software for professional reporting and analysis.

Technical Specification

Part Number	Description
YKIT-DIGITAL-B	Elcometer Basic Digital Inspection Kit (F)
YKIT-DIGITAL-T	Elcometer Top Digital Inspection Kit (F)
YKIT-DIGITALFNF-B	Elcometer Basic Digital Inspection Kit (FNF)
YKIT-DIGITALFNF-T	Elcometer Top Digital Inspection Kit (FNF)

* Whichever is the greater

^ Probes are supplied separately, see page 7 for details

\# Using default settings & lithium batteries, alkaline or rechargeable batteries may differ.

† For separate gauges, the test foils, glass zero tile and probe protection cap are supplied with the separate probe.

● Test Certificate supplied as standard.

نماینده فروش در ایـــران

کاوشکـــــاران

تلفـــــن: ۸۸۶۸ ۵۲۹۷ – ۰۲۱

www.IR-QC.com