

NEW

Elcometer 456

IPC Dry Film Thickness Gauge

elcometer®
inspection equipment

Pre-calibrated with 4 surface profiles
to measure dry film thickness on shot
or grit blasted substrates



● No calibration required - just select the relevant surface profile and start measuring

● Easy to use straight from the box - minimum training required

● Fully portable, rugged hand-held design ideal for use in the field

- Pre-calibrated with 4 profile ranges
- Displays 3 individual readings together with the average
- Built in integral probe measures in mils or microns
- Measures on flat or curved surfaces
- Bluetooth® to PC, iOS & Android™ devices



Made for

iPod iPhone iPad

Android™



Elcometer 456

IPC Dry Film Thickness Gauge

The Elcometer 456 Industrial Protective Coating Thickness Gauge¹ is pre-calibrated to measure DFT on shot or grit blasted steel substrates.

STANDARDS:

ASTM D7091, ISO 2808, ISO 19840,
SSPC PA-2, US Navy NSI 009-32

new

Pre-calibrated with 4 profile ranges²:

Profile	Metric	Imperial
Smooth	0-25µm	0-1mil
Fine	25-60µm	1-2mils
Medium	60-100µm	2-3mils
Coarse	>100µm	3-4mils

Displays 3 individual readings together with their average in microns or mils

Built in integral probe for stable, repeatable readings on flat or curved surfaces



Easy to use multi-lingual menu structure

Stores up to 150,000 readings in alphanumeric batches

USB or Bluetooth® data output to the ElcoMaster® App or your own software application



¹USA patent number US6243 661

²European Patent Number: 2754993



Elcometer 456 IPC: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad Air 2, iPad mini 3, iPad Air, iPad mini 2, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch (4th and 5th generation). "Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

IPC Dry Film Thickness Gauge

Elcometer 456

Product Features

Model	Model S	Model T
Part Number	A456CFI1-IPC	A456CFTI1-IPC
Test Certificate	●	●
Fast, accurate reading rate; 70+ readings per minute	■	■
Data output	■	■
USB; to computer	■	■
Bluetooth®; to computer, Android™ & iOS¹ devices	■	■
On screen statistics; in Batch Mode		■
Number of readings; η , Mean (average); \bar{x} , Standard deviation; σ , Highest reading; Hi, Lowest reading; Lo, Coefficient of variation; CV%, Elcometer index value²; EIV, Nominal dry film thickness; NDFT, High & low limits; definable audible & visual alarms, Number of readings above high limit; Number of readings below low limit		■
ElcoMaster® software & USB cable		■
Integral Probe type; Ferrous (F)	■	■
Measurement range; 0 - 1,500 μ m (0 - 60mils)	■	■
Resolution; 10 μ m/1mil (where 5 μ m/0.5mil is rounded up)	■	■
Accuracy³; $\pm 5\%$	■	■
Minimum substrate thickness; 300 μ m (12mils)	■	■
Pre-calibrated with 4 profile ranges⁵;	■	■
Smooth 0-25 μ m 0-1mil, Fine 25-60 μ m 1-2mils, Medium 60-100 μ m 2-3mils, Coarse >100 μ m 3-4mils	■	■
Auto calibration	■	■
Calibration memory type; gauge (g) or gauge & batch (gb)	g	gb
Number of batches; with unique calibrations		2,500
Calibration lock; with optional PIN code unlock	■	■
Delete last reading	■	■
Gauge memory; number of readings		150,000
Individual batch calibrations; sent to PC via ElcoMaster® software		■
Limits; user definable audible & visual pass/fail warnings		■
Gauge & batch specific limits		■
Date and time stamp		■
Review, clear & delete batches		■
Batch types; normal, counted average		■
Batch review graph		■
Copy batches and calibration settings		■
Alpha-numeric batch names; user definable on the gauge		■

Technical Specification

Battery Type	2 x AA batteries, rechargeable batteries can also be used
Battery Life⁴	Alkaline: Approx. 16 hours Lithium: Approx. 24 hours
Gauge Dimensions (h x w x d)	141 x 73 x 37mm (5.55 x 2.87 x 1.46")
Weight (including batteries)	156g (5.5oz)
Operating Temperature	-10 to 50°C (14 to 122°F)
Packing List	Elcometer 456 IPC Gauge, calibration foils, wrist harness, protective case, 1 x screen protector, USB cable, test certificate, 2 x AA batteries & user guide.

¹ Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

● Test certificate supplied as standard.

² Elcometer Index Values are used in the automotive industry to assess a coating's overall quality; USA patent number US7606671B2 ³ When in test calibration mode

⁴ Using default settings & lithium batteries, alkaline or rechargeable batteries may differ ⁵ European Patent Number: 2754993



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Elcometer 456 IPC: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad Air 2, iPad mini 3, iPad Air, iPad mini 2, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch (4th and 5th generation).

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