

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™ 

available with



Bluetooth®
wireless technology



compatible with
ElcoMaster.

Elcometer 456

IPC Dry Film Thickness Gauge

The Elcometer 456 Industrial Protective Coating Thickness Gauge* 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 ranges:

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



* USA patent number US6243 661

2 YEAR
WARRANTY



Made for iPod iPhone iPad

Android™

available with Bluetooth® wireless technology

compatible with ElcoMaster®

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	A456CFT11-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 ranges;	■	■
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 ³When in test calibration mode

⁴ Using default settings & lithium batteries, alkaline or rechargeable batteries may differ



elcometer[®]
www.elcometer.com

elcometer.be • elcometer.fr • elcometer.de
elcometer.nl • elcometer.jp • elcometer.com.sg

ENGLAND

Elcometer Limited
Manchester M43 6BU
Tel: +44 (0)161 371 6000
Fax: +44 (0)161 371 6010
sales@elcometer.com
www.elcometer.com

BELGIUM

Elcometer SA
Tel: +32 (0)4 379 96 10
Fax: +32 (0)4 374 06 03
be_info@elcometer.com
www.elcometer.be

FRANCE

Elcometer Sarl
Tel: +33 (0)2 38 86 33 44
Fax: +33 (0)2 38 91 37 66
fr_info@elcometer.com
www.elcometer.fr

GERMANY

Elcometer Instruments GmbH
Tel: +49(0)7361 52806 0
Fax: +49(0)7361 52806 77
de_info@elcometer.com
www.elcometer.de

THE NETHERLANDS

Elcometer B.V.
Tel: +31 (0)30 259 1818
Fax: +31 (0)30 210 6666
nl_info@elcometer.com
www.elcometer.nl

JAPAN

Elcometer KK
Tel: +81-(0)3-6869-0770
Fax: +81-(0)3-6433-1220
jp_info@elcometer.com
www.elcometer.jp

REPUBLIC OF SINGAPORE

Elcometer (Asia) Pte Ltd
Tel: +65 6462 2822
Fax: +65 6462 2860
asia@elcometer.com
www.elcometer.com.sg

UNITED ARAB EMIRATES

EL Inspection & Blasting
Equipment LLC
Tel: +971 4 295 0191
Fax: +971 4 295 0192
uae_sales@elcometer.com
www.elcometer.ae

USA

MICHIGAN

Elcometer Inc
Tel: +1 248 650 0500
Toll Free: 800 521 0635
Fax: +1 248 650 0501
inc@elcometer.com
www.elcometer.com

TEXAS

Elcometer of Houston
Tel: +1 713 450 0631
Toll Free: 800 521 0635
Fax: +1 713 450 0632
inc@elcometer.com
www.elcometer.com

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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