

Elcometer 415 Industrial Paint & Powder Thickness Gauge

Can be used in accordance with:
AS2331.1.4, AS/NZS 1580.108.1, ASTM B 499, ASTM D 1186*, ASTM D 1400*,



The new Elcometer 415 Industrial Paint & Powder Thickness Gauge provides simple, fast and accurate coating thickness measurements on smooth and thin industrial paint and powder coatings.

The new Elcometer 415 automatically switches between ferrous and non-ferrous metals. Designed to measure cured paint and powder coatings up to 1000µm, the thickness gauge is ideal for the industrial paint & powder market.

With a reading rate of 60+ readings per minute, the new paint and powder thickness gauge allows to inspect more industrial materials in less time.

Compatible with ElcoMaster® software and ElcoMaster® Mobile App, individual paint and powder thickness readings can be transferred via USB or Bluetooth® to PC or a mobile device for analysis and instant report generation.



*Standards

ASTM D 7091, ASTM E 376, BS 3900-C5-6A*, BS 3900-C5-6B*, BS 5411-11*, BS 5411-3*, BS 5599, DIN 50981*, DIN 50984*, ECCA T1*, EN 13523-1, ISO 2360, ISO 2808-12, ISO 2808-6A*, ISO 2808-6B*, ISO 2808-7C, ISO 2808-7D, JIS K 5600-1-7, NF T30-124, ISO 2178

* Standards not in bold have been superseded but are still recognised in some industries.

Features

Key features and benefits of the Elcometer 415 Paint & Powder Thickness Gauge include:

- Incredibly fast (60+ readings per minute), reduces inspection times, increasing productivity
- Automatically switches between ferrous and non-ferrous substrates¹
- Measures cured paint & powder coatings up to 1000µm
- 1 point and 2 point calibration ensures accuracy on smooth and thin coated substrates
- Easy to use, ergonomic design provides maximum comfort for continuous use
- Large easy to read values in microns or mils
- Auto rotating large colour display provides clear visibility whatever the angle of measurement
- Scratch, solvent and powder resistant display
- Rugged and resistant to powder coatings ingress equivalent to IP64
- Transfer live data via USB or Bluetooth® to ElcoMaster® for instant report generation



“The new Elcometer 415 doesn’t just take a thickness measurement”

In addition to the coating thickness, the new Elcometer 415 displays the key statistical values required to assess the overall industrial finishing; number of readings (n), average (x), lowest (Lo) and highest (Hi) paint thickness.

“Stay accurate with simple calibration”

This new, easy to use, Elcometer 415 has 1 point & 2 point calibration, ensuring accurate measurements on smooth & thin industrial paint & powder coated surfaces.

“Each gauge is designed to last”

Robust, durable & powder resistant, the new Elcometer 415 is available with a 2 year** manufacturer’s warranty; giving you peace of mind.

“Seamlessly connect to any PC, Android™ or iOS mobile device”

As each measurement is taken the new Elcometer 415 instantly transmits the thickness values via USB or Bluetooth®² to your PC or mobile device using ElcoMaster® or your own software application.



Ideal for measuring dry film thickness on thin coated substrates.



360° auto rotating display for a clear reading at any measurement angle, on the production line or QA station.



Transfer live data via Bluetooth® to PC, Android™ or iOS mobile devices².

¹ Elcometer 415 FNF models

² Elcometer 415 Model T

** Elcometer 415 gauges are supplied with a one year warranty against manufacturing defects. The warranty can be extended to two years

Video



YouTube Video - Calibrating the new Elcometer 415 Paint & Powder Thickness Gauge
(Click on the image to the left to view the video)

Specifically designed for measuring smooth industrial paint and powder coatings on thin ferrous and non-ferrous substrates, the Elcometer 415 has two calibration options: 1 point for fast and simple calibration, and 2 point calibration to achieve the highest accuracy results.

Technical Specifications

	Model B A415CFBI	Model B A415CFNFBI	Model T A415CFTI	Model T A415CFNFTI
Part Number	A415CFBI	A415CFNFBI	A415CFTI	A415CFNFTI
Calibration Test Certificate	■	■	■	■
Built in probe type	Ferrous (F)	Ferrous / Non-Ferrous (FNF)	Ferrous (F)	Ferrous / Non-Ferrous (FNF)
On screen statistics Number of readings, n; Average (mean), x; Lowest reading, Lo Highest reading, Hi	■	■	■	■
Live data output	USB	USB	Bluetooth® & USB	Bluetooth® & USB
Reading rate	60+ readings per minute			
Accuracy ¹	±1-3% or ±2.5µm			
Measurement Range	0-1000µm			
Operating Temperature	-10 to 50°C			
Relative Humidity (RH)	0 to 95% (RH)			
Power Supply	2 x AA Batteries or via USB (rechargeable batteries can also be used)			
Gauge Dimensions	14.1 x 7.30 x 3.70cm (h x w x d)			
Gauge Weight	156g (including batteries)			

Packing List

Elcometer 415 Industrial Paint & Powder Thickness Gauge
2 x AA batteries
Steel & aluminium check pieces*
Foil set
Wrist strap
Impact resistant carry case
Screen protector†
Calibration Test Certificate
Operating instructions
USB cable†
ElcoMaster CD†
2 year warranty extension card

¹ When subject to a 2-point calibration: ±1% when calibrated close to the required thickness, ±3% across the range.

† Model T

* F models: steel check piece; FNF models: steel & aluminium check pieces

Accessories

T99916925	Calibration Check Piece; Steel (Ferrous)
T99916901	Calibration Check Piece; Aluminium (Non-Ferrous)
T99022255-1	Foil Set; 0-1000µm
T99022255-1C	Certified Foil Set; 0 - 1000µm
T99921325	USB Cable
T99922341	Self Adhesive Screen Protectors (Pack of 10)

Protective Cases

T99931812	Plastic Protective Case
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