

# Elcometer 311 Refinishing Gauge



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### At a glance

- Simple, easy-to-use gauge specifically designed for the automotive industry.
- Available in Ferrous only, or Dual FNF versions.

Can be used in accordance with:	
ASTM D 387	ASTM D 332
ISO 8780-5	ISO 787/16
NFT 30 023	

### Elcometer 311 Refinishing Gauge

The Elcometer 311 has been specifically designed to meet the requirements of today's automotive market.

The Elcometer 311 is available in two options. The ferrous only instrument is ideal for measuring steel car body panels. The Dual FNF instrument enables the user to take measurements on both steel and aluminium car body panels using one gauge.

Pre-calibrated on steel and aluminium car body panels, the Elcometer 311 is very easy-to-use. Checkpieces are supplied with each instrument to verify its performance.

- Designed specifically to meet the requirements of the automotive industry.
- Ferrous Only and Dual FNF gauges available
- Pre-calibrated on automotive steel and aluminium.
- Bigfoot™ for stable, repeatable readings.
- Scale range of 0-500µm (0- 20mils)
- Auto on/off switch
- Checkpiece included to verify performance – FNF gauge comes complete with ferrous and non-ferrous checkpieces.
- Available in Metric or Imperial Units



### Coating Thickness Gauges- Digital

Simple to interpret, small and portable gauges for the measurement of coatings on all metal surfaces. Digital coating thickness gauges are more accurate, more repeatable and more reproducible than any other type of coating thickness gauge on the market today.

Elcometer offers the world's most comprehensive range of portable digital coating thickness gauges - for measurements on either Ferrous substrates (F), Non-Ferrous substrates (NF), or on both Ferrous and Non-Ferrous (FNF), Elcometer can provide you with a gauge to meet your need.

With a wide choice of gauges to choose from, the User needs to understand the terminology of Coating Thickness Gauges or, 'The Language of CTGs'.

### THE LANGUAGE OF CTGs

In selecting the most appropriate gauge for your application, you need to answer specific questions.

1. What is the substrate (the surface metal) you are coating/inspecting?

Is the metal a Ferrous Substrate (F) or a Non-Ferrous (NF)? Sometimes this is difficult to answer – the substrate may have already been coated. The easiest way to identify this is to see if a magnet will stick to the surface. If it does, then the substrate will be Ferrous, if it does not, then the substrate is Non-Ferrous.

2. Do you measure only on this substrate?

If you only inspect one type of product, then the answer is yes. If you have a range of products that you inspect, then you need to consider whether they are all of the same type of substrate. You should also consider if you have a future possibility of inspecting other substrates. If so, you should consider an FNF gauge.

		Metric	Imperial
Scale Range		0 - 500µm	0 - 20 mils
Resolution		10µm	0.5 mils
Probe Type		Integral only with auto switch on	
Accuracy		±5% or ±20µm whichever is the greater	±5% or ±1.0 mils whichever is the greater
Operating Temperature		0 to 50°C	32 °F to 120°F
Speed of Readings		30 per minute	
Battery Life (continuous)		20 hours	
Dimensions		56 x 24 x 120mm	2.2" x 0.95" x 4.75"
Weight (including Dry Batteries)		115g	4oz
Part Numbers	Ferrous Only	A311FM	A311FE
	Dual FNF	A311FNFM	A311FNFE
Packing List	Elcometer 311F: Elcometer 311F Refinishing Gauge, 2 x LR03 (AAA) alkaline batteries, Steel checkpiece, Foil, Carrying case & Operating instructions		
	Elcometer 311 FNF: Elcometer 311FNF Refinishing Gauge, 2 x LR03 (AAA) alkaline batteries, Steel checkpiece, Aluminium checkpiece, Foil, Carrying case & Operating instructions		



3. What is your Coating / Substrate Combination?

Ensure compatibility of the coating and substrate; whether a coating thickness gauge will provide an accurate reading.

4. Typically what sort of coating thickness do you need to measure?

This will help you select the correct probe scale range - e.g. Scale 1 measures coatings up to 1500µm (60mils).

5. What type of probe do you need?

Depending on your application you can select from:

- Integral Probe (the probe is built into the gauge for accurate single handed measurements on large surface areas, pipes, etc.)
- Separate Probe (the probe is connected to the gauge by a cable for all applications).
- PINIP™ (the separate probe is directly attached to the base of the instrument – providing, in your separate gauge, all the benefits of an integral unit).

Separate Probes can be selected from our wide range to meet your application requirements. These include:

- *Regular Probes*: Including Straight, Right Angle (90°) and Telescopic options
- *Miniature Probes*: Including Straight, Right Angle (90°), 45° Angle all in either long or short versions.

6. Do you need to save your readings for your ISO records, or as proof of inspection to your customer?

Elcometer gauges are available in three options:

- *Basic Gauge* -with simple statistics but no memory or data output
- *Standard Gauge* -with statistics, limited memory and data output
- *Top Gauge* -with statistics, enhanced memory, batching capability and data output