

Elcometer 355 Standard Coating Thickness Gauges



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At a glance

- 1% accurate coating thickness gauge.
- Wide range of probes available for various applications.
- Memory - store readings for output to PC, printer etc.



Elcometer 355 Coating Thickness Gauges

Accuracy, simplicity, versatility and flexibility are the watchwords of the Elcometer 355, a truly state of the art hand-held measuring system packed with time-saving and cost cutting features. The key to the superiority of the Elcometer 355 is its measuring system which features a range of interchangeable Probe Modules capable of an accuracy of $\pm 1\%$ of the reading on a variety of coatings and substrates, including ferrous and non-ferrous substrates.

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The unit's large memory stores up to 5,000 readings in batches and data can be output to PC, datalogger or printer as required.

A full selection of Probe Modules allows choice for your application. All modules are supplied with calibration foils.

- $\pm 1\%$ Accuracy
- Rugged Aluminium Case
- Traceable thickness standards
- EDTS⁺ Excel Link and EDCS WIN Software supplied
- 5,000 reading memory in 25 pre-set batches.
- Full statistical analysis – mean, standard deviation, number of readings, highest and lowest value
- RS232 Printer/PC Output – Serial and Parallel.
- Date and time information

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.

Can be used in accordance with:

FERROUS (F)	NON-FERROUS (NF)	DUAL FERROUS and NON-FERROUS (FNF)
ASTM B 499 BS 5411-11 BS 3900-C5-6Aa BS EN ISO 1461 DIN 50981 ISO 2178 ISO 2808-6Aa prEN ISO 19840	ASTM D 1400 ASTM B 244 BS 5411-3 BS 3900-C5-6Ba BS 5599 DIN 50984 ISO 2360 ISO 2808-6Ba	All of the Ferrous and Non-Ferrous List plus; ASTM E 376



Elcometer 355 Probes



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Elcometer's unique Probe Modules allow versatile application of the Elcometer 355 and 365 Coating Thickness Gauges.

Probe Modules can be freely interchanged as required on both ferrous (F) and non-ferrous (NF) metal substrates.

Most Probe Modules are capable of an accuracy of $\pm 1\%$ of the reading on a variety of coatings and surfaces.

Probe Type	Part Number	Measuring Range ¹		Accuracy		Resolution		Range Steps	
		μm	mils	μm	mils	μm	mils	μm	mils
F1 Standard	T35511952	0-1500	0-60	$\pm 1\%$ or $\pm 1\mu\text{m}$	$\pm 1\%$ or $\pm 0.04\text{mil}$	0.1 0.05 1.0	0.005 0.02 0.05	0-200 200-500 500-1500	0-8 8-20 20-60
F1 Right Angle	T35511953								
F1 Telescopic	T35511959								
F1 A (Automotive)	T35512400								
F2 Standard	T35511954	0-5mm	0-200	$\pm 1\%$ or $\pm 5\mu\text{m}$	$\pm 1\%$ or $\pm 0.2\text{mil}$	2 5	0.1 0.2	0-0.5mm 0.5-5mm	0-20 20-200
F2 Right Angle	T35511955								
F2 Telescopic	T35511960								
F3 Standard	T35511956	0-13mm	0-500	$\pm 2\%$ or $\pm 30\mu\text{m}$	$\pm 1\%$ or $\pm 1\text{mils}$	5 10	0.2 0.5	0.1mm 1-13mm	0-40 40-500
F4 Standard	T35511950	0-250	0-10	$\pm 1\%$ or $\pm 1\mu\text{m}$	$\pm 1\%$ or $\pm 0.04\text{mil}$	0.1	0.005	0-250	0-10
F4 Right Angle	T35511951								
F5 (Rebar)	T35511962	0-800	0-32	$\pm 1\%$ or $\pm 2\mu\text{m}$	$\pm 1\%$ or $\pm 0.08\text{mil}$	1	0.1	0-800	0-32
F6 Standard	T35511964	0-25mm	0-1000	$\pm 2\%$ or $\pm 100\mu\text{m}$	$\pm 1\%$ or $\pm 4\text{mils}$	10 50	0.5 2	0-5mm 0-25mm	0-200 200-1000
N1 Standard	T35511982	0-1500	0-60	$\pm 1\%$ or $\pm 1\mu\text{m}$	$\pm 1\%$ or $\pm 0.04\text{mil}$	0.1 0.5	0.005 0.02 0.05	0-200 200-500 500-1500	0-8 8-20 20-60
N1 Right Angle	T35511983								
N2 Standard	T35511984	0-5mm	0-200	$\pm 1\%$ or $\pm 15\mu\text{m}$	$\pm 1\%$ or $\pm 0.6\text{mil}$	2 5	0.1 0.2	0-0.5mm 0.5-5mm	0-20 20-200
N4 (Anodisers)	T35511980	0-250	0-10	$\pm 1\%$ or $\pm 1\mu\text{m}$	$\pm 1\%$ or 0.04mil	0.1	0.005	0-250	0-10

¹ all measurements are displayed in either μm or mils unless otherwise stated