

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.

Elcometer 355 Standard Coating Thickness Gauges

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 Top Coating Thickness



Elcometer 355 Top Coating Thickness Gauges

At a glance

- *Enhanced version of 355 Standard with additional feature.*

Elcometer 355 Top Coating Thickness Gauges

Similar to the Elcometer 355 Standard Coating Thickness System, but with added features and memory. The unit's larger memory allows you to store up to 10,000 readings in various user identified batches and data can be output to a PC, datalogger or printer as and when required.

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

- ±1% Accuracy
- High and Low Reasonable Limits
- Rugged Aluminium Case
- Traceable thickness standards
- EDTS+ Excel Link and EDCS WIN Software supplied
- 10,000 reading memory in 200 batches (individually calibrated)
- Average and Counted Average mode
- Full statistical analysis – mean, standard deviation, number of readings, highest and lowest value
- Password Protection
- RS232 Printer/PC Output – Serial and Parallel.
- Date and time information

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

	Metric	Imperial
Dimensions	175 x 83 x 42mm	6.9 x 3.3 x 1.6"
Weight	650g	1.43lbs
Operating Temperature	0 to 50°C	32 to 120°F
Storage Temperature	-10 to 60°C	14 to 140°F
Data output	RS232C Serial or Parallel Output via 25p Way D Type Connector (Female)	
Batteries	3 x 1.5V AA Cells (Alkaline) or 3 x 1.5V Nickel Metal Hydride rechargeable cells	
Part Number	Elcometer 355 Standard Coating Thickness Gauge	A355----S
	Elcometer 355 Top Coating Thickness Gauge	A355----T
The Elcometer 355 is not supplied with a probe, please select a Probe from the Elcometer 355 & Elcometer 365 Probes		

Elcometer 355 Probes



Elcometer 355 Probes

Elcometer 355 Probes

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

Related products



Elcometer 456

With its recently enhanced and simplified menu screen options, the Elcometer 456 remains the most advanced hand held coating thickness gauge on the market today. This flagship product is available in any combination of Basic, Standard and Top functionality; together with Integral (built in) and an extensive range of separate plug in probes. With such an extensive range of gauge options, there is an Elcometer 456 to meet your specific application needs.



Elcometer 345

The Elcometer 345 Coating Thickness Gauge is an incredibly versatile gauge. With a range of probes in both Integral or Separate probe versions for coating thickness measurements on Ferrous (F), Non Ferrous (N) or both Ferrous and Non Ferrous (FNF) Substrates, the Elcometer 345 will have a gauge for your requirements.



Elcometer digital coating thickness gauge accessories

Elcometer has a wide range of accessories for their coating thickness gauges, from larger handgrips for greater reading repeatability, to probe placement fixtures, portable printers to soft coatings adapters, Elcometer can help you achieve the maximum from your paint gauge.



Elcometer coating thickness standards and calibration foils

Formal quality systems such as those described in ISO 9000 and Guide 25 require that gauges be properly controlled, logged and in calibration. Increasingly, users are specifying that the readings taken by gauges are traceable to National Standards. There are three types of coating thickness standards available from Elcometer: coated standards, foils and zero test plates.

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