Elcometer 355

Coating Thickness Gauge

supplied with
ElcoMaster ™2.0
data management software
see page 264

The Elcometer 355's watchwords are accuracy, simplicity, versatility and durability making this a true state of the art hand-held measuring system packed with time-saving and cost-cutting features.

Available as a standard and top model, the unit's large memory stores up to 10,000 readings in batches and data can be output to a PC, datalogger or printer as required.

With a comprehensive range of Probe Modules available, just select the most appropriate for the application. All modules are supplied with calibration foils.

- ±1% or 1µm, whichever is the greater, accuracy
- Rugged aluminium case designed for the toughest environments
- ElcoMaster™ 2.0 software supplied, see pages 264 - 265
- Full statistical analysis - mean standard deviation, number of readings, highest and lowest value
- RS232 output
- Date and time stamp
- For a full list of probes and accessories, see pages 195 - 196

STANDARDS:
AS 2331.1.4, AS 3894.3-B, AS/NZS 1580.108.1, ASTM B 244, ASTM B 499, ASTM D 1186-B, ASTM D 1400, ASTM D 7091, ASTM E 376, ASTM G 12, BS 3900-C5-6A, BS 3900-C5-6B, BS 5411-3, BS 5411-11, BS 5599, DIN 50981, DIN 50984, ECCA T1, EN 13523-1, IMO MSC.215(82), IMO MSC.244 (83), ISO 1461, ISO 19840, ISO 2063, ISO 2360, ISO 2808-6A, ISO 2808-6B, ISO 2808-7C, ISO 2808-7D, ISO 2808-12, JIS K 5600-1-7, NF A49-211, NF T30-124, SS 184159, SSPC PA 2, US Navy PPI 63101-000, US Navy NSI 009-32

Product Features C

Part Number	Description	Certificate
A355----S	Elcometer 355 Standard Coating Thickness Gauge	○
A355----T	Elcometer 355 Top Coating Thickness Gauge	○
Operating Temperature	0°C to 50°C (32°F to 120°F)	
Storage Temperature	-10°C to 60°C (14°F to 140°F)	
Dimensions	175 x 83 x 42mm (6.9 x 3.3 x 1.6")	
Weight	650g (1.43lb)	
Reading Speed	40 readings per minute	
Data Output	RS232C Serial or Parallel Output via D25 Type Connector (Female)	
Memory	Standard: 5,000 reading memory in 25 pre-set batches Top: 10,000 reading memory in up to 200 batches (individually calibrated)	
Battery Type	3 x 1.5V AA Cells (Alkaline) or 3 x 1.5V Nickel Metal Hydride rechargeable cells	
Battery Life	Minimum: 40 hours with alkaline batteries, 20 hours with rechargeable batteries	
Packing List	Elcometer 355 Top or Standard Gauge, leather carry case, 3 x AA batteries, ElcoMaster™ 2.0 software, PC cable and operating instructions	

For a full range of calibration standards and foils sets see pages 201-203

○ Optional Calibration Certificate available

Coating Thickness Gauge

Elcometer 355

Unique probe modules allow the Elcometer 355 Coating Thickness Gauges to be versatile and flexible for any measurement application.

Probe modules can be freely interchanged as required for both ferrous (F) and non-ferrous (N) metal substrates.

Most probe modules are capable of an accuracy of ±1% of the reading on a variety of coatings and surfaces.

Telescopic probes extend from 410mm (16”) to 1100mm (43”).

Probe Range C

Scale 1

Range: 0-1500µm (0-60mils) Accuracy*: ±1% or ±1µm (±0.04mil)

Resolution: 0.1µm: 0-200µm; 0.5µm: 200-500µm; 1µm: 500-1500µm (0.005mil: 0-8mils; 0.02mil: 8-20mils; 0.05mil: 20-60mils)

Probe Design	Part Number	Minimum Headroom	Minimum Sample Diameter	Certificate
F1 Standard	T35511952	85mm (3.35”)	6mm (0.24”)	○
F1 Right Angle	T35511953	28mm (1.10”)	6mm (0.24”)	○
F1 Telescopic	T35511959	30mm (1.18”)	6mm (0.24”)	○
N1 Standard	T35511982	85mm (3.35”)	8mm (0.31”)	○
N1 Right Angle	T35511983	28mm (1.10”)	8mm (0.31”)	○

Scale 2

Range: 0-5mm (0-200mils) Accuracy*: ±1% or ±5µm (±0.2mil)

Resolution: 2µm: 0-500µm; 5µm: 500-5000µm (0.1mil: 0-20mils; 0.2mil: 20-200mils)

Probe Design	Part Number	Minimum Headroom	Minimum Sample Diameter	Certificate
F2 Standard	T35511954	89mm (3.50”)	10mm (0.39”)	○
F2 Right Angle	T35511955	32mm (1.26”)	10mm (0.39”)	○
F2 Telescopic	T35511960	36mm (1.42”)	10mm (0.39”)	○
N2 Standard	T35511984	88mm (3.46”)	18mm (0.71”)	○

Scale 3

Range: 0-13mm (0-500mils) Accuracy*: ±2% or ±30µm (±1mil)

Resolution: 5µm: 0-1mm; 10µm: 1-13mm (0.2mil: 0-40mils; 0.2mil: 40-500mils)

Probe Design	Part Number	Minimum Headroom	Minimum Sample Diameter	Certificate
F3 Standard	T35511956	102mm (4.02”)	18mm (0.71”)	○

Scale 4

Range: 0-250µm (0-10mils) Accuracy*: ±1% or ±1µm (±0.04mil)

Resolution: 0.1µm: 0-250µm (0.005mil: 0-10mils)

Probe Design	Part Number	Minimum Headroom	Minimum Sample Diameter	Certificate
F4 Standard	T35511950	85mm (3.35”)	4mm (0.16”)	○
F4 Right Angle (long)	T35511951	18mm (0.71”)	3mm (0.12”)	○
N4 Standard	T35511980	90mm (3.54”)	8mm (0.31”)	○

Scale 5

Range: 0-800µm (0-32mils) Accuracy*: ±1% or ±2µm (±0.08mil)

Resolution: 1µm: 0-800µm (0.1mil: 0-32mils)

Probe Design	Part Number	Minimum Headroom	Minimum Sample Diameter	Certificate
F5 (Rebar)	T35511962	85mm (3.35”)	4mm (0.16”)	○

Scale 6

Range: 0-25mm (0-1000mils) Accuracy*: ±2% or ±100µm (±4mils)

Resolution: 10µm: 0-5mm, 50µm: 5-25mm (0.5mil: 0-200mils, 2mil: 200-1000mils)

Probe Design	Part Number	Minimum Headroom	Minimum Sample Diameter	Certificate
F6 Standard	T35511964	150mm (5.9”)	51mm (2.0”)	○

* Whichever is greater

○ Optional Calibration Certificate available

Elcometer 355 Coating Thickness Gauge

Accessories

Jumbo Hand Grip

Ideal for precision placement for the most accurate results on flat and curved surfaces. Place the probe inside the Jumbo Hand Grip and take measurements - ideal when wearing gloves.

Part Number	Description
T9997766-	Jumbo Hand Grip - F and N Probes
	For use with the following Elcometer 355 probes: F1 Standard, F2 Standard, F4 Standard, F5 Rebar, N1 Standard

V-Probe Adaptor

Ideal for precision placement for the most accurate results on medium and large diameter curved surfaces such as pipes and cylinders.

Part Number	Description
T9997381-	V-Probe Adaptor - F and N Probes
	For use with the following Elcometer 355 probes: F1 Standard, F2 Standard, F4 Standard, F5 Rebar, N1 Standard

Soft Material/Blanket Probe

Ideal for taking precision readings on soft coatings or printing blankets. The wide, flat base design acts as a load spreader, reducing the total force at a single point.

Part Number	Description
T35511963	Soft Material/Blanket F2 Probe for Elcometer 355
Range:	0-5mm (0-200mils)
Accuracy:	±1% or ±5µm (±0.2mil)
Resolution:	2µm: 0-500µm; 5µm: 500-5000µm (0.1mil: 0-20mils; 0.2mil: 20-200mils)

Probe Replacement Jig

For the most reliable and repeatable coating thickness measurements, making the gauge score highly in repeatability and reproducibility studies. Ideal for small and large components alike. The probe placement jig is supplied with a probe housing to suit standard F1, F2, F4, F5 and N1 probes. Housings to suit other probes are available as optional accessories.

Part Number	Description
T95012880	Probe Placement Jig
T95013028	Component Hand Vice - a simple vice to hold small components
T95012888	Cable Release Assembly - ideal for remote measurements
T95015589	N4 Probe Adaptor - must be purchased for use with N4 Probes