

elcometer®
inspection equipment



Elcometer 355
Coating Thickness Gauge

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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™ software supplied
- Full statistical analysis - mean standard deviation, number of readings, highest and lowest value
- RS232 output
- Date and time stamp



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

| 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 | Auto Repeat Mode 130/140 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™ software, PC cable and operating instructions | |

○ Optional Calibration Certificate available.

Coating Thickness Gauge

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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

| Scale | Range | Accuracy* | | |
|-----------------------|--|-----------------------------------|-------------------------|-------------|
| 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") | ● |
| 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 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
 ● Test certificate supplied as standard.

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.

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 |
|-------------|--|
| 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 |
| 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 |

Probe Placement 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 |
| T95012888 | Cable Release Assembly - ideal for remote measurements |
| T95015589 | N4 Probe Adaptor - must be purchased for use with N4 Probes |

