## England

## "Elcometer" 456 Series Digital Coating Thickness Gauge

- ➢ Working principle: -(F) version is measured by electromagnetic induction ➢ Standard
- -(NF) version is measured by Eddy current modules
- Languages menus in 26 languages
- Multi-function such as statistic, backlight, different unit(metric and imperial)
- Accuracy: 1-3% or ±2.5µm (F1, N1 probe)
- Minimum substrate thickness: 300µm

## Integral Gauge Model with Built-in Sensor Range 0~1500µm:

Integral Gauge Model – economical and can be controlled by one hand

| Model    | Version                         | Part No     | Range    | Properties  |  |
|----------|---------------------------------|-------------|----------|---|--|
|          |                                 | A456CFBI1   | 0~1500µm | User definable on-screen statistics – number of readings, |  |
|          | F                               | A456CFBI2   | 0~5mm    | mean, standard deviation, coefficient of variation,       |  |
| Basic    |                                 | A456CFBI3   | 0~13mm   | minimum, maximum  |  |
|          | NF                              | A456CNBI1   | 0~1500µm | Backlight – user selectable ideal for dark environments   |  |
|          | FNF                             | A456CFNFBI1 | 0~1500µm | Switchable metric/ imperial units (mm, µm, mils, inches)  |  |
|          | F                               | A456CFSI1   | 0~1500µm | Including functions of basic functionality                |  |
| Standard |                                 |             | •        | Memory sizes: 750 readings in one batch                   |  |
|          | FNF <b>A456CFNFSI1</b> 0~1500μι |             | 0~1500µm | With ElcoMaster 2.0 Software, USB Cable                   |  |
|          | F                               | A456CFT1    | 0~1500µm | Including fuctions of basic functionality                 |  |
| Тор      | FNF                             |             |          | Memory size: 75000 in up to 999 batches                   |  |
|          | FINE                            | A456CFNFTI1 | 0~1500µm | With ElcoMaster 2.0 Software, USB Cable                   |  |



Remark: 1). Standard and Top model contain "Bluetooth" function,

2). For information of other measuring range, please contact our company.

### Separate Gauge Model, Not included Probe:

Separate gauge model - changeable probe for different measure range, can be used separate type miniature probe as well

| Model    | Version        | Model       |                  | Properties   |  |
|----------|----------------|-------------|------------------|--|--|
|          | F              | A456CFBS    | ٨                | User definable on-screen statistics – number of readings, means, |  |
| Basic    | NF             | A456CNBS    |                  | standard deviation, coefficient of variation, minimum, maximum   |  |
| Dasic    | FNF A456CFNFBS |             | $\triangleright$ | Backlight – user selectable ideal for dark environments          |  |
|          | 1 1 1          | A4JOCFINEBS | $\triangleright$ | Switchable metric/imperial units (mm, µm, mils, inches)          |  |
|          | F              | A456CFSS    | $\checkmark$     | Including functions of basic functionality                       |  |
| Standard | NF             | A456CNSS    | $\triangleright$ | Memory sizes: 750 readings in one batch                          |  |
|          | FNF            | A456CFNFSS  | $\triangleright$ | With ElcoMaster 2.0 Software, USB Cable                          |  |
|          | F              | A456CFTS    |                  | Including functions of basic functionality                       |  |
| Тор      | NF             | A456CNTS    | $\triangleright$ | Memory size: 75000 in up to 999 batches                          |  |
|          | FNF            | A456CFNFTS  |                  | With ElcoMaster 2.0 Software, USB Cable                          |  |
|          |                |             |                  |  |  |

Remark: Standard and top model contain "bluetooth" function

## Separate Type Probe Model (For Separate Gauge Only):

|     | Probe Type     | Model      | Range    |
|-----|----------------|------------|----------|
|     | F1 Standard    | T456CF1S   | 0~1500µm |
| F   | F1 Right Angle | T456CF1R   | 0~1500µm |
| Г   | F2 Standard    | T456CF2S   | 0~5mm    |
|     | F3 Standard    | T456CF3S   | 0~13mm   |
| NF  | N1 Standard    | T456CN1S   | 0~1500µm |
| FNF | FNF1 Standard  | T456CFNF1S | 0~1500µm |

Remark: For information of other model, please contact our company

## Separate Type Miniature Probe Mode (Range: 0~500µm)

|   |                                      |  | Min. Convex      | Min. Concave   | Min. Sample |
|---|--------------------------------------|--|------------------|----------------|-------------|
|   |                                      |  | Surface Diameter | Surface Radius | Diameter    |
|   |                                      | T456FM3A, Straight Probe                                       | 1.5mm            | 6.5mm          | 3mm         |
|   | F                                    | T456FM3R45A, 45°Probe  | 1.5mm            | 6.5mm          | 3mm         |
|   |                                      | T456FM3R90A, 90°Probe  | 1.5mm            | 6.5mm          | 3mm         |
| F | FNF <b>T456NM3A</b> , Straight Probe |  | 3mm              | 25mm           | 4mm         |
| F | •                                    | <b>T456FM3R45A</b> , 45°Probe<br><b>T456FM3R90A</b> , 90°Probe | 1.5mm<br>1.5mm   | 6.5mm<br>6.5mm | 3mm<br>3mm  |

Remark: For information of other model, please contact our company



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### Guangzhou Branch:

- Ferrous (F): BS 5411(11), BS 3900(C5), ISO 2178, ISO 2808, BS EN ISO 1461, DIN 50981, ASTM B 499, BS EN ISO 19840
- Non-Ferrous (NF): BS 5411(3), BS 3900(C5), ISO 2360, ISO 2808, DIN 50984, ASTM D1400

England

# "Elcometer" 355 Series Digital Coating Thickness Gauge

Elcometer 355 equipped with microprocessor, the main units contain memory and digital display

## Features:

- > With a wide range of interchangeable probe
- Versatility and flexibility and wide measuring range
- ±1% accuracy
- > RS232 Printer/ PC Output Serial and Parallel
- Can be used in accordance with BS, ISO, ASTM, SSPC Standard
- EDTS+ Excel Link and EDCS WIN Software supplied
- Provided with protective case

# **Working Principle**

| Ferrous metal substrates (F) | Non-ferrous metals (N) |
|------------------------------|------------------------|
| F probe: is measured by      | N probe: is measured   |
| principle of electromagnetic | by principle of Eddy   |
| induction                    | current modules.       |

# Gauge Model:

| Model        | A355-S (standard)                          | A355-T (top)                               |  |  |  |  |  |
|--------------|--|--|--|--|--|--|--|
| Memory Size: | 5000 reading                               | 10000 reading                              |  |  |  |  |  |
| Statistic    | Mean, standard                             | Mean, Standard                             |  |  |  |  |  |
|              | deviation, number of readings, highest and | deviation, number of readings, highest and |  |  |  |  |  |
|              | lowest value                               | lowest value, average and counted average  |  |  |  |  |  |
|              |  | mode                                       |  |  |  |  |  |



# Probe Model:

| 11000   |           |                            |                 |         |              |   |  |  |
|---------|-----------|----------------------------|-----------------|---------|--------------|---|--|--|
| Version | Part No   | Probe type                 | Measuring range | Picture | Accuracy     | Minimum reading (range)                           |  |  |
|         | T35511952 | F1 standard                | 0~1500µm        | А       |              | 0.1µm (0~200µm)                                   |  |  |
|         | T35511953 | F1 right angle             | 0~1500µm        | В       | ±1 or ±1µm   | 0.5µm (200~500Um)<br>1.0µm (500~1500µm)           |  |  |
|         | T35511954 | F2 standard                | 0~5mm           | А       | ±1% or ±5µm  | 2μm (0~0.5mm)<br>5μm (0.5~5mm)                    |  |  |
| F       | T35511956 | F3 standard                | 0~13mm          | С       | ±2% or ±30µm | 5μm (0~1.0mm)<br>10μm (1~13mm)                    |  |  |
|         | T35511950 | F4 right angle             | 0~250µm         | А       | ±1% or ±1µm  | 0.1µm (0~250µm)<br>minimum convex diameter: 1.5mm |  |  |
|         | T35511962 | F5 Rebar                   | 0~800µm         | D       | ±1% or ±2µm  | 1μm (0~800μm)<br>minimum convex diameter:4mm      |  |  |
|         | T35511982 | N1 standard                | 0~1500µm        | E       | ±1% or ±2µm  | 0.1µm(0~200µm)                                    |  |  |
|         | T35511983 | N1 right angle             | 0~1500µm        | F       | ±1% or ±1µm  | 0.5µm (200-500µm)<br>1.0µm (500~1500µm)           |  |  |
| N       | T35511984 | N2 standard                | 0~5mm           | G       | ±1% or ±15µm | 2µm (0~0.5mm)<br>5µm (0.5~5mm)                    |  |  |
|         | T35511980 | N4 standard<br>(anodisers) | 0~250µm         | Н       | ±1% or ±1µm  | 0.1µm(0~250µm)                                    |  |  |



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 Example
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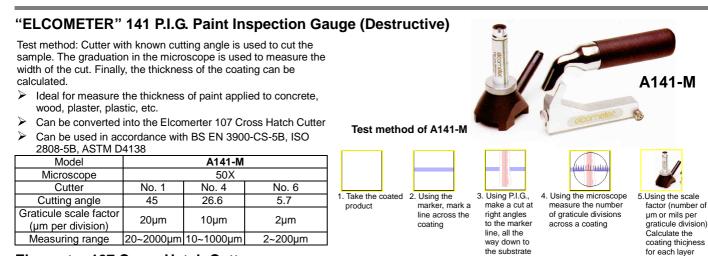
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### Guangzhou Branch:

England



## **Elcometer 107 Cross Hatch Cutter**

- Cross Hatch Method: After making cut, brush the coating slightly with a soft brush or tissue to remove any detached flakes or ribbons of coating, then check the resulting cross-hatch pattern according to the Classification of Adhesion Test results. An adhesive type can be used prior to checking the result.
- Can be used in accordance with ASTM D 3359-B, ASTM D 3302, BS 3900-E6, BS EN ISO2409, DIN 53151, ISO 2409, NF T 30-038

### **Basic Kit and Full Kit:**

Basic Kit: Cross Hatch Cutter handle, Cutter blade, Hexagonal wrench, Carrying case & Operating instructions Full Kit: Cross Hatch Cutter handle, Cutter blade, Hexagonal wrench, Adhesive Tape (ISO or ASTM), Eye Glass, Brush, Carry case & Operating instructions

Selecting the appropriate test kit

| Cuttor | Number of Teeth | Part Number            |                         |             |  |  |
|--------|-----------------|------------------------|-------------------------|-------------|--|--|
| Culler |                 | Full Kit with ISO Tape | Full Kit with ASTM Tape | Basic Kit   |  |  |
| 1mm    | 6               | F10713348-6            | F10713348-1             | F10713222-1 |  |  |
| 1mm    | 11              | -                      | F10713348-2             | F10713222-2 |  |  |
| 1.5mm  | 11              | -                      | -                       | F10713222-3 |  |  |
| 2mm    | 6               | F10713348-9            | F10713348-4             | F10713222-4 |  |  |
| 3mm    | 6               | -                      | -                       | F10713222-5 |  |  |

## **Elcometer 106 Adhesion Tester**

> Applications include: paint or plasma spray decking, coatings on steel, aluminium or concrete, etc

- Test method: A test dolly is bonded to the coating using an adhesive. The 106 houses a spring arrangement which applies a lift force to the dolly. When the dolly is pulled off the surface, an indicator on the scale shows the numerical value of adhesion expressed in terms of the force required to remove the dolly.
- ▶ Used in accordance with ASTM D4541, ISO 4624 and BS EN 24624 test method. Elcometer 106 Adhesion

|                      | Elcometer 106 adhesion Tester with 5 measuring range |                               |       |                            |                                  |                              |  |  |
|----------------------|--|-------------------------------|-------|----------------------------|----------------------------------|------------------------------|--|--|
| Model                | F106-1   | F106-2                        |       | F106-3                     | F106-4                           | F106-5                       |  |  |
| Measuring range      | 0-3.5N/mm <sup>2</sup> (MPa)                         | 0-7N/mm <sup>2</sup> (MPa) or | 0-15  | N/mm² (MPa)                | 0-22N/mm <sup>2</sup> (MPa)      | 0-0.2N/mm <sup>2</sup> (MPa) |  |  |
|                      | or 0-5lb/in <sup>2</sup> x 100                       | 0-10lb/in2 <sup>2</sup> x 100 | or 0- | 20lb/in <sup>2</sup> x 100 | or 0-3.2lb/in <sup>2</sup> x 100 | or 0-30lb/in <sup>2</sup>    |  |  |
| Dolly size:          | Diameter: 20mm                                       |                               |       | Area: 314mm <sup>2</sup>   |                                  |                              |  |  |
| Optional accessories | Spare dollies  |                               |       | T1062895-                  |                                  |                              |  |  |

## **Elcometer 108 Hydraulic Adhesion Tester**

- Application included: tanks, Pipelines, area susceptible to explosion (e.g. inflammable areas)
   Reusable stainless steel dolly
- Used in accordance with ASTM C 633, BS EN 24624, ISO 2063 test method

| Model                      |            | F108-1D  | F108-2D             |
|----------------------------|------------|--|---------------------|
| Pressure gauge             |            | Dial   | Digital             |
| Pressure gauge accur       | acy        | ±0.5MPa (Metric Scale);<br>±50PSI (Imperial Scale) |                     |
| Dial Adhesion Gauge Range  | Operating: | 0~18MPa (  | 0-2600PSI)          |
| Blair lancelen Guuge Range | Full Scale | 0~25MPa (0~3500PSI)                                | 0~34MPa (0~5000PSI) |



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150.2

Full Kit

**ISO 3** 

**ISO Standard** 

**ISO** 4

Basic kit

### Guangzhou Branch:



# elcometer

# "Elcometer" Coating Testing Instrument

# England



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### Guangzhou Branch:

### **Temperature Data Recorder**

### Elcometer 215 Oven Temperature Data Recorder

Feature:

with a large display for easy

menu-driven operation a

English, French, German,

Minimize energy coss: Avoid

or with long through-put times

Choice of five languages:

Spanish and Italian

running the ovens at

The Elcometer 215 is ideal for measuring the temperature profiles of both the sample and the oven during the curing process.

The Elcometer 215 identifies the achieved "Temperature Profile" and provides the User with information to ensure consistent quality.

Suitable for powder coating, batch and conveyor ovens,

#### Surface coatingtester

Elcometer 128 Pictorial Elcometer 1720 Surface Standard



Model: E128-1, Elcometer's range of Surface Standards (ISO 8501, SIS 055900)



These robust, reliable and extremely versatile machines have been designed for testing the abrasion, washability, brushability and resistance of a wide range of materials including paint, lacquers, inks, coatings, leather, wood, plastics, printed material, fabrics, etc

- Maxmize productivity: Reduce rejects and reworks due to poor oven performance
  - Power supply: 2 x AA Batteries
  - Optimise finishing quality: Logging temperature profiles provides the information required to ensure consistent quality
- Datalogger software: Comprehensive Calculations and fully customized reports are easily produced with the Elcometer 215 Software supplied as standard with each gauge. unnecessarily high temperature
  - Choice of kits available: Standard and Top models available

Elcometer 3025

Specification:

- Accuracy: 5 C to 500 C: ±0.5 C; >500 C: ±1 C
- Resolution: 0.1 C
- No. of channel: 6K-type

| 0045 00    |                                 |     |
|------------|---------------------------------|-----|
| Model      | Description                     |     |
| Memory: 26 | 0000 readings or 8 production r | uns |

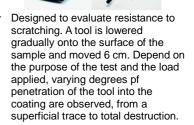
Elcometer 215 standard kit G215-2S G215-2T Elcometer 215 top kit T21521275 1.5m Clamp Air Probe T21521287 1.5m Magnetic Air Probe T21521278 1.5m Clamp Surface Probe T21521281 1.5m Magnetic Surface Probe T21521279 3m Clamp Surface Probe T21521282 3m Magnetic Surface Probe

# Elcometer 3000



A motorized device to test the resistance of many materials to scratching (ISO). A conical diamond tip is fixed beneath a beam holding a sliding weight. The tip leaves a trace and the extent of this, in relation to the load used, indicates the degree of hardness.





#### **Coating Tester**

Elcometer 3530 Adjustable Baker Film Applicator Baker Film Applicator



Elcometer 3520

- The gap can be djusted from Can be used in accordance
  - uniform film or a film wedge Can be used in accordance with ASTM D 3022, ASTM



Elcometer 5500

A rod with a ball tip is brought into contact with a test piece if fresh paint and traces a circumference of 50mm. The drying time is evaluated from the condition of the trace and measured with a template with time markings

### Elcometer 1615 Impact Tester

This gauge is ideal for evaluating the resistance of a coating to impact (elongation, cracking or peeling) either by a weight with a hemispherical punch attached falls on a coated metal sheet or a weight falls on to a hemispherical punch which is resting on the coated metal sheet

### Salt Testing equipment Elcometer 134S

Salt Detection Kit

0~250µm



- Model: E134-1
- Range: 1~50ppm (µg/cm2)
- Standard: ISO 8502-6, SIO DIS 8502-9

**Chloride Ion Test Kit** 

Elcometer 134A

- Range: 1~50ppm (µg./cm2)
- ISO11127-7, BS 7079-F16



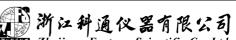


Model: E130-1

Elcometer 130 Salt

**Contamination Meter** 

- Range: 0.1-20µg/cm2
- $\triangleright$ Resolution: 0.1µg/cm2
- Model: E138-1 Standard: ISO 8502-6, ISO DIS 8502-9



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with ASTM D 3022, ASTM D 823, FTMS 141a M2161, FTMS 141 M6226 standard

There are 4 fixed gap size can be set to produce either a

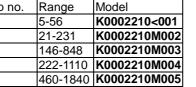
D823, FTMS 141a M2161, FTMS 141a 4122.1 standard

## **"ELCOMETER"** Paint Inspection Instrument

## 2210 Series Zahn-cup ASTM D 4212



- Can be used in accordance with ASTM D 4212, ASTM D 1084, ASTM D3794
   Formed in Stainless steel
   Ideal for measuring the consistency of paints,
- varnishes and similar products
  Cup no. Range Model



\*Elcometer 2400 Viscosity Concersion Disc for unit conversion from seconds to cSt

# **501 Series Pencil Hardness Tester**

2

3

4 5



- Model: H501-1
- Can be used in accordance with ASTM D 3363, ECCA T4, EN 4.45.1, BS3900 E19, ISO 15184
- To evaluate the hardness of the coating of the pencil.
- Fixed angle testing ensure increasing the reproducibily of the rest
- Constant force of 7.5N
- With a set of pencils in each of the 14 hardnessed from 6B to 6H, 2 pencil sharpeners and a sandpaper block



## 2351 Series Ford Cup ASTM D 1200

- Can be used in accordance with ASTM D 1200
  - Made of anodized aluminium, with a stainless steel orifice
- Ideal for measuring the consistency of paints, varnishes and similar products

| Cup no. | Range(cSt) | Model        |  |  |  |  |
|---------|------------|--------------|--|--|--|--|
| 1       |            | K0002351M001 |  |  |  |  |
| 2       | 25-120     | K0002351M002 |  |  |  |  |
| 3       | 49-220     | K0002351M003 |  |  |  |  |
| 4       | 70-370     | K0002351M004 |  |  |  |  |
| 5       | 200-1200   | K0002351M005 |  |  |  |  |

## **3086 Series Motorized Pencil Hardness Tester**

- Model: K0003086M001
- Can be used in accordance with ASTM D 3363, BS3900 E19, ISO 15184
- To evaluate the hardness of the coating of the pencil
- Fixed angle for testing
- The load on the lead is adjustable from 0 to 10N
- The motorized device in anodized aluminium can travel forwards or backwards ar a uniform speed further increasing the reproducibility of the test
- Supplied with a lead holder and a set of 12 leads in each of the 14 hardnesses

# 2050 Series High Precision Grindometer 2041/2020 Series Fineness of Grind Gauges – Hegman, North & PCU



2050 Series

## 2041/2020 Series

- Can be used in accordance with ASTM D1210, ASTM D 1316, DIN 53203, DIN EN ISO NF 21524, FTMS 141a M.4411.1, ISO 1524, NFT 30 046
- Made of hardened stainless steeland
- With one or two grooves with a graded slope for determine particle size and fineless of grind of many materials including paints, pigments, inks, coatings, chocolates or other similar products
- 2020Series shows graduations in microns, NS and PCU indicated on top of the gauge

| Series      | Range   |            |             | Number of | Groove | Groove | Accuracy | Graduation | Model        |
|-------------|---------|------------|-------------|-----------|--------|--------|----------|------------|--------------|
|             | Mm      | Hegman(NS) | North (PCU) | Grooves   | Width  | Length | Accuracy | Graduation | woder        |
| 2050 Series | 0-25µm  |            |             | 1         | 12mm   | 200mm  | ±1µm     | 1µm        | K0002050M001 |
| High        | 0-50µm  |            |             |           |        |        |          | 2µm        | K0002050M002 |
| Precision   | 0-100µm |            |             |           |        |        |          | 5µm        | K0002050M005 |
| Grindometer | 0-250µm |            |             |           |        |        |          | 12.5µm     | K0002050M008 |
| 2041 Series | 0-15µm  |            |             | 2         | 12mm   | 127mm  | ±2µm     | 1µm        | K0002041M001 |
| Fineness of | 0-25µm  |            |             |           |        |        |          | 2.5µm      | K0002041M002 |
| Grind       | 0-50µm  |            |             |           |        |        |          | 5µm        | K0002041M003 |
| Gauges      | 0-100µm |            |             |           |        |        |          | 10µm       | K0002041M004 |
| 2020 Series | 0-15µm  | 8-7        | 10-9        |           |        |        |          | 1µm        | K0002020M003 |
| Fineness of | 0-25µm  | 8-6        | 10-8        |           |        |        |          | 2.5µm      | K0002020M004 |
| Grind       | 0-50µm  | 8-4        | 10-5        |           |        |        |          | 5µm        | K0002020M001 |
| Gauges      | 0-100µm | 8-0        | 10-0        |           |        |        |          | 10µm       | K0002020M002 |



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