NEW

Elcometer 500 Coating Thickness Gauge elcometer inspection equipment

Reliably measure up to 9mm of coating thickness on concrete & other similar substrates



Fast, accurate & repeatable readings

Robust, ergonomic design; inspect all day, every day

Can be used in accordance with ASTM D6132, SSPC PA9 & ISO 2808

Field replaceable probe tips; maximise your productivity





Bluetooth[®]

www.elcometer.com

Elcometer 500

Coating Thickness Gauge

The Elcometer 500 coating thickness gauge accurately measures the thickness of coatings on concrete and other similar substrates* - non destructively.

- Accurately measure up to 9mm (355mils) of coatings on concrete or other similar substrates[‡]
- Easy to read, user definable display with automatic screen brightness
- Store up to 100,000 readings in up to 1,000 alpha-numeric batches
- Rugged, intelligent probes with field replaceable tips, measure up to 9mm (355mils)
 - C1 150 2,500μm (6 98mils) C2 750 - 9,000μm (30 - 355mils)



elcometer

compatible with

ElcoMaster.

Elcometer 500

Coating Thickness Gauge

Fast

Measuring over 60 readings per minute in standard mode and over 140 readings per minute in scan mode, the Elcometer 500 coating thickness gauge can significantly reduce your inspection times.

Reliable

The Elcometer 500 will only display the coating thickness reading if the signal strength indicator turns green, preventing false or incorrect readings.

If the coating thickness is outside the measurement range, the Elcometer 500 tells you on the display.

Intelligent

The Elcometer 500 measurement probes are supplied with user replaceable probe tips. If the tip is damaged or wears during use you can replace it and carry on.

The gauge even informs you when you need to change the probe tip, maximising inspection time.

Easy to Use

There is no need to set up gates, range values or know the thickness of the coating, simply select the coating material from the gauge library and start measuring.

Ergonomic

The Elcometer 500 gauge and intelligent probes have all been ergonomically designed for continuous use. No force is required to take a reading.

Rugged

Robust, ergonomic and sealed against dirt and water, equivalent to a rating of IP54, the Elcometer 500 has been designed to work in harsh environments, making it the ideal gauge for the laboratory or the job site.

Powerful

The Elcometer 500 wirelessly transmits readings, statistics and batches via Bluetooth[®] or via USB straight into your inspection application or into Elcometer's Mobile App ElcoMaster[®], for instant report generation either at your desk or in the field, using your mobile.





Large easy to read display and signal strength indicator



Ergonomic probes with replaceable probe tips



Easy to use and minimum set up required



Rugged and reliable, ideal for harsh environments

😫 Bluetooth

6

Elcometer 500

Create instant reports with ElcoMaster®

What you do with the collected data is just as important as taking the readings themselves.



ElcoMaster[®] is a fast, easy to use software solution for all your data management and guality assurance needs, preparing professional inspection reports at the click of a button.

Data transferred to ElcoMaster® includes:

- Date and time stamped readings
- Statistical values
- Limit values
- Readings above high limit
- Run charts & histograms
- Batch and gauge information

Download on the

App Store

Bluetooth

ANDROID APP ON

Google plav

Calibration information

ElcoMaster[®] Mobile App users can;

- Store live readings directly on to a mobile device and save them into batches
- View graphs in real-time whilst carrying out the inspection
- Add notes to individual batch reading
- Add photographs of the test surface to each individual batch reading at the click of a button
- · Plot individual readings on to a location map, photograph or diagram via the mobile device's internal GPS
- Inspection data can be transferred from mobile to PC for further analysis and reporting
- Generate instant .pdf² report for submission

DD

Coating Thickness Gauge

Connect

Connect gauge via Bluetooth® to see live readings directly on the phone and save them into batches

Review

Review average. maximum and minimum readings instantly.

Manage & Print

Store all data: surface cleanliness, surface profile, climate or manual reports in easy to manage folders.

Photos & Notes

Add photos, notes and comments.

Image Collection

Use measurement location points on images to indicate the position for the next reading.1

Combine

Combine different inspection parameters (such as surface profile, climate, dry film thickness) together with images, notes and other project specific information into reports.

Collaborate

Share inspection data securely via the Cloud and collaborate on projects using the instant messaging feature in ElcoMaster®

Send

Email inspection data from a mobile device to a PC for further analysis and reporting or transfer data via the Cloud.



Consistency

Stored material calibrations can be transferred to ElcoMaster® These can be sent to any Elcometer 500 gauge, anywhere in the world.

¹ Android[™] devices

² Available on iOS devices



2.196





😫 Bluetooth

Emai

Cloud

Coating Thickness Gauge

The different modes of calibration

The Elcometer 500's user calibration adjustment procedures are fully traceable to National and International Standards.





technology means that you no longer need to know how thick the coating should be or to set up measurement gates before taking a reading. Simply switch on the gauge, select the coating from the calibration library and take a reading - it is that easy.





2. Material Thickness Calibration

To obtain the greatest measurement accuracy, the Elcometer 500 can be calibrated using the known thickness of the coating to be measured.

If a sample of known thickness is not available, the Elcometer 500 Coating Calibration Mould (CCM) can be used to create a coating of known thickness which is traceable to both National and International Standards.

3. Sound Velocity Calibration

The Elcometer 500 can be calibrated by entering the speed of sound from the Product Datasheet available from the coating manufacturer.

Elcometer 500

Display Modes





Readings & Statistics



Readings & Run Charts



Readings & Bar Graphs



Readings & Differential

How to create a coating sample using the Elcometer 500 Coating Calibration Mould (CCM)



1. Place the Coating Calibration Mould (CCM) on a flat surface and completely fill the sample chamber with the test coating.



2. Using the plastic scraper, scrape over the coating allowing the excess to fall into the overflow chamber. Allow the coating to cure.



3. When fully cured, calibrate a ferrous coating thickness gauge on the side of the CCM then measure and record the dry film thickness at the centre of the coating.



4. Measure the same point using the Elcometer 500.

Enter the dry film thickness measurement and save it in the Elcometer 500's Coating Materials list.

Elcometer 500

Coating Thickness Gauge

Product Features	Standard	Optional
	Model B	Model T
Fast, accurate reading rate; 60+ readings per minute		
Repeatable & reproducible measurements		
Easy to use menu structure; in 30+ languages		
Tough, impact, waterproof & dust resistant; equivalent to IP54		
Bright colour screen; with automatic rotating display (0°, 90°, 180° & 270°)		
Scratch & solvent resistant display; 2.4" (6cm) TFT		
USB power supply; <i>via PC</i>		
Test certificate & 2 year gauge warranty*		
Ambient light sensor; with adjustable auto brightness		
Automatic probe recognition		
Gauge software updates ¹ ; <i>via ElcoMaster[®] software</i>		
Data output		
USB; to computer		
Bluetooth [®] ; to computer, Android [™] & iOS [‡] devices		
Measurement units; μm, mm, mils, inch		
Signal strength indicator		
User selectable reading resolution; Low & High reading resolution		
Display modes; user selectable		
Readings		
Readings & differential; reading and the offset from a set nominal difference	_	
Bar graph		
Live reading trend graph; in batch mode		
Run chart; trend graph of last 20 readings		
User selectable statistics;		
Number of readings; η , Mean (average); \overline{x} , Standard deviation; σ ,	-	-
Highest reading; Hi, Lowest reading; Lo, Coefficient of variation; CV%		
Nominal dry film thickness; NDFT, High & low limits; definable audible & visual alarms, Number of readings above high limit; Number of readings below low limit; Range; I		
Multiple calibration methods with on-screen instructions; in 30+ languages		
Material selection; preset choice of materials or create own user defined materials		
Velocity entry; direct entry of a material's sound-velocity		
1 Point; using a coating sample of known thickness		
Calibration lock; with optional PIN code unlock		
Gauge memory; number of readings		100,000
Number of batches; with unique batch calibrations		1,000
Alpha-numeric batch names; user definable on the gauge		
Fixed batch size mode; with batch linking		
Batch review graph		
Delete last reading		
imits; 40 user definable audible & visual pass/fail warnings		
ive reading mode; transfer of individual readings to external device	USB	USB & Bluetooth®
Reading save function		
Date and time stamp		
Scan mode		
ElcoMaster® software & USB cable		
Protective case		-
Plastic transit case		

* The Elcometer 500 is supplied with a one year warranty against manufacturing defects. Gauge warranty can be extended to two years via www.elcometer.com. * Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App. 1 Internet connection required

Coating Thickness Gauge

Elcometer 500

Part Number A500C-B A500C-T A500-KIT1 Operating Tem Power Supply Battery Life Gauge Weight		Description Elcometer 500 Coating			Certificate
A500C-T A500-KIT1 Operating Tem Power Supply Battery Life Gauge Weight		Elcometer 500 Coating			
A500-KIT1 Operating Tem Power Supply Battery Life Gauge Weight		Elcometer 500 Coating Thickness Gauge Model B		•	
Operating Tem Power Supply Battery Life Gauge Weight		Elcometer 500 Coating Thickness Gauge Model T		odel T	•
Power Supply Battery Life Gauge Weight	A500-KIT1 Elcometer 500 Coatings on C		on Concrete Inspec	tion Kit	•
Battery Life Gauge Weight	perature	-10 to 50°C (14 to 122°F)			
Gauge Weight		2 x AA batteries (rechargeable batteries can be used)			
		Alkaline: Approximately 15 hours Lithium: Approximately 28 hours			
		161g (5.68oz) including batteries, without transducer			
Gauge Dimensions Packing List		141 x 73 x 37mm (5.55 x 2.87 x 1.46") without transducer Elcometer 500 Coating Thickness Gauge Model B & T			
		Elcometer 500 Coating 120ml (4fl oz) bottle of u (Model T), wrist harness USB cable (Model T), te Elcometer 500 Coating Elcometer 500 Model T C1 & C2 probe measure Model B Ferrous Integra (20 & 60mils), 2 x coatin	Thickness Gauge, 4r Iltrasonic couplant, 2 , 3 x screen protecto st certificate is on Concrete Insp Coating Thickness G ement foils: 1, 2, 3 & Il Gauge, Elcometer ig calibration moulds probe tip oil, transit c	ml (0.14fl oz) bottle of probe tip of 2 x AA batteries, protective case, t ors, ElcoMaster [®] software (Model	transit case T), s probes, cometer 456 n ic couplant,
Probe Range	<u> </u>				
Scale C1	T500-C1	Elcometer 500 Scale C	1 Probe		Certificate
	Range ¹ : 150 - 2,500µm (6 - 98mils) Accuracy ² : ±2% or ±10µm (±2% or ±0.4mil)				•
and the second second	Resolution: Lo	w: 10µm, 0.01mm, 1mil o	or 0.001" High: 1µm	n, 0.001mm, 0.1mil or 0.0001"	
Scale C2	T500-C2 Elcometer 500 Scale C2 Probe				Certificate
Ocule OF	Range ¹ : 750 - 9,000 μ m (30 - 355mils) Accuracy ² : ±2% or ±10 μ m (±2% or ±0.4mil)				
and the second second	Resolution: Low: 10µm, 0.01mm, 1mil or 0.001" High: 1µm, 0.001mm, 0.1mil or 0.0001"				
	Resolution. Lo		DI U.UUTI HIGH. THI	1, 0.00 111111, 0. 11111 01 0.000 1	
Accessories					
Part Number	Description				
T50027602-1	C1 Replacemen	t Probe Tip;	T50027602-2	-2 C2 Replacement Probe Tip;	
	Pack of 2 Pack of 2				
T50027604	•	ml (0.14fl oz) Bottle			
Part Number	Description				P1 \
T92015701		Itrasonic Couplant; 120ml (4fl oz)T92024034-7Ultrasonic Couplant; 300ml (10fl oz)Itrasonic Couplant; 500ml (17fl oz)T92024034-3Ultrasonic Couplant; 3.8l (1 US Gallon)		/	
T92024034-8	•		T92024034-3	Ultrasonic Couplant; 3.8I (1 US	Gallon)
T92024034-9	Ultrasonic Couplant (High Temp); 60ml (2fl oz); for use in high temperature environments up to 398°C (970°F)				
Part Number	Description				
T99022255-13	C1 Foil Set: T99022255-13C C1 Foil Set - Certified: 1 & 2mm (40 & 80mils) 1 & 2mm (40 & 80mils)				
T99022255-14	C2 Foil Set: T99022255-14C (C2 Foil Set - Certified: 3 & 8mm (120 & 310mils)		
Part Number	Description				
T50027567-1		Coating Calibration Mould	L(CCM)		
100021001-1		calling calloration mould			
	oplied as standard			 Epoxy coatings, thickness on other mater Whichever is greater 	ials may vary

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Elcometer 500 Model T: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad Air 2, iPad mini 3, iPad Air, iPad mini 2, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch (4th and 5th generation).

"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

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