Coating Thickness

Eban 4000

The Eban 4000 Coating Thickness Meter easily measures all coatings on metallic substrates using the magnetic induction or eddy current principles, ensuring the correct coating thickness has been applied.

One of the most advanced Coating Thickness Meters on the market, the Eban 4000 uses the most up-to-date technology, and offers a small, portable instrument incorporating all the required user functions.

Available in models of Standard and Top. All functions are easily accessible through a menu-driven display.

For ease of use, all models come complete with flexible lead measuring probes.

Calibration Certificates having traceability to UKAS are available for both the Eban 4000 and the Calibration Foils.

Complies with International Standards

Ferrous Models	Non-Ferrous Models	Ferrous & Non-Ferrous
ISO 2178	ISO 2360	ASTM E 376
ISO 2808-6Aa	ISO 2808-6Ba	All of the Ferrous and Non-Ferrous list
BS 5411-11	BS 5411-3	
BS 3900-C5-6Aa	BS 3900-C5-6Ba	
BS EN ISO 1461	BS 5599	
ASTM B 499	ASTM D 1400	
DIN 5098	ASTM B 244	
prEN ISO 19840	DIN 50984	

Eban 4000 Range of Features

Feature	Description	Standard	Top
Back Light	Allows measurements to be easily seen in dimly lit locations.	✓	✓
Battery Life%	Checks at any time how much battery life is available.	✓	✓
Micron / Mil conversion	Displays Metric Microns and Imperial Thou / Mil.	✓	✓
Mean / Average	Gives constant Mean / Average update for all measurements.	✓	✓
No. of Readings	Continually shows Number of Readings taken in the batch.	✓	✓
Max / Min	Gives Max or Min measurement taken in the batch.	✓	✓
Coefficient of Variation	A useful statistic for analysis (SDV/Mean x 100).	✓	✓
Standard Deviation	The Standard Deviation for current batch measurements.	✓	✓
Hi / Lo Limits	Pass and fail with audible and visual alarm and out of limit % shown.	✓	✓
Profile	Allows calibration on blast-cleaned surfaces.	✓	✓
Personalised Name	Company name permanently personalised. Appears on display at switch on and every printout.	✓	✓
Calibration Memories	The calibration settings for special jobs can be stored and recalled when required, saving time on recalibration.	—	✓
Batch Recall	Go back to previous batches and look at statistics. Also add or cancel readings from previous batches.	—	✓
Printout	Allows all batches to be downloaded to a computer for analysing and printing. A Portable Printer (part no CA173) is also available for direct printouts.	—	✓
Multiple Batching	Measurements taken stored into batches which incorporate batch number and unique job number.	—	✓
Auto Batching	Set the required batch quantity and then take readings. Auto Batch will automatically generate the batch boundary.	—	✓
Date and Time	Real-time clock which stores the Date and Time in each batch.	—	✓

Eban 4000 Probe Specifications

Probe	Diameter	Headroom	Minimum Convex Radius	Minimum Concave Radius	Minimum Sample Area
Ferrous Straight 0-1000µm	9mm / 360mils	75mm / 3″	4mm / 160mils	25mm / 1″	4mm / 160mils
Ferrous Right Angle 0-1000µm	9mm / 360mils	40mm / 1.5″	4mm / 160mils	25mm / 1″	4mm / 160mils
Ferrous Straight 0-2000µm / 0-5mm	15mm / 600mils	75mm / 3″	10mm / 400mils	50mm / 2″	10mm / 400mils
Ferrous Straight 0-20mm	50mm / 2″	150mm / 6″	100mm / 4″	500mm / 20″	100mm / 4″
Non-Ferrous Straight 0-1000µm	10mm / 400mils	75mm / 3″	5mm / 200mils	25mm / 1″	5mm / 200mils
Non-Ferrous Right Angle 0-1000µm	10mm / 400mils	40mm / 1.5″	5mm / 200mils	25mm / 1″	5mm / 200mils
Non-Ferrous Straight 0-2000µm	10mm / 400mils	75mm / 3″	5mm / 200mils	25mm / 1″	5mm / 200mils

Eban 4000 Specifications

Part No	Probe Type	Model Type	Substrate	Range Metric	Range Imperial	Resolution Metric	Resolution Imperial	Accuracy	Cal Cert Part No	Foil Cert Part No
C4001	Straight	Standard	Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4002	Right Angle	Standard	Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4003	Straight	Standard	Ferrous	0-2000µm 0-5mm	0-80mils 0-200mils	1µm 0.01mm	0.1mil	±1 to 3%	NC001	NC002
C4004	Straight	Standard	Ferrous	1-20mm	40-800mils	0.1mm	0.1mil	±1 to 5%	NC001	NC002
C4005	Straight	Standard	Non-Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4006	Right Angle	Standard	Non-Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4007	Straight	Standard	Non-Ferrous	0-2000µm	0-80mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4008	Straight	Standard	Ferrous and Non-Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4009	Right Angle	Standard	Ferrous and Non-Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4010	Straight	Standard	Ferrous and Non-Ferrous	F 0-2000µm F 0-5mm N 0-2000µm	0-80mils 0-200mils 0-80mils	1µm 0.01mm 1µm	0.1mil	±1 to 3%	NC001	NC002
C4101	Straight	Top	Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4102	Right Angle	Top	Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4103	Straight	Top	Ferrous	0-2000µm 0-5mm	0-80mils 0-200mils	1µm 0.01mm	0.1mil	±1 to 3%	NC001	NC002
C4104	Straight	Top	Ferrous	1-20mm	40-800mils	0.1mm	0.1mil	±1 to 5%	NC001	NC002
C4105	Straight	Top	Non-Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4106	Right Angle	Top	Non-Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4107	Straight	Top	Non-Ferrous	0-2000µm	0-80mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4108	Straight	Top	Ferrous and Non-Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4109	Right Angle	Top	Ferrous and Non-Ferrous	0-1000µm	0-40mils	1µm	0.1mil	±1 to 3%	NC001	NC002
C4110	Straight	Top	Ferrous and Non-Ferrous	F 0-2000µm F 0-5mm N 0-2000µm	0-80mils 0-200mils 0-80mils	1µm 0.01mm 1µm	0.1mil	±1 to 3%	NC001	NC002
CA173	Portable Dot Matrix Printer									

All models are supplied with Measuring Probes, set of 8 Calibration Foils, Zero Disks and Carrying Case.

More information →

Selecting instrument model for different coatings and substrates

Coating	Substrate								
	Aluminium	Brass	Bronze	Copper	Magnesium	Steel	Stainless	Titanium	Zinc
Aluminium	—	—	—	—	—	Ferrous	—	—	—
Anodizing	Non-Ferrous	—	—	—	Non-Ferrous	—	—	—	—
Brass	—	—	—	—	—	Ferrous	—	—	—
Bronze	—	—	—	—	—	Ferrous	—	—	—
Cadmium	—	—	—	—	—	Ferrous	—	—	—
Ceramic	—	—	—	—	—	Ferrous	—	—	—
Chrome	—	—	—	—	—	Ferrous	—	—	—
Copper	—	—	—	—	—	Ferrous	—	—	—
Eloxal	Non-Ferrous	—	—	—	—	—	—	—	—
Epoxy	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous
Galvanizing	—	—	—	—	—	Ferrous	—	—	—
Metal spray	—	—	—	—	—	Ferrous	—	—	—
Lacquer	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Ferrous	Non-Ferrous	—	Non-Ferrous
Paint	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous
Plastic	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous
Rubber	Non-Ferrous	—	—	—	—	Ferrous	—	—	—
Tin	—	—	—	—	—	Ferrous	—	—	—

Ferrous models will measure all non-ferromagnetic coatings on steel and iron.
Non-ferrous models will measure all non-conductive, non-ferromagnetic coatings on conductive non-ferrous substrates.

PROMAT
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