elcometer®

inspection equipment

Elcometer 215
Oven Data Logger

Oven Temperature Profiling

Elcometer 215   Oven Data Logger

The Elcometer 215 is the easy to use oven temperature profile solution, used to measure and store the temperature profiles of both the sample and the oven during the cure process.

Memory stores up to 260,000 readings

Ideal for testing for powder or liquid coatings in batch or conveyor ovens

Variable measurement interval, date, time, °C / °F

Print full colour report directly to any HP printer

Large menu-driven display for easy operation

Start and stop logging at a pre-set temperature

Measure up to 6 different temperatures at one time

Ideal in situations where powder coated thickness is inconsistent

Quick display shows maximum temperature, Cure-Index figure and pass/fail for each probe

High temperature resistant teflon coated probe cables are easy to clean after each run

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The logger display shows maximum temperature and Cure-Index figure, percentage and pass/fail sign, as a value or graphic representation for each probe.

Powerful

- Ideal for testing powder or liquid coatings in batch or conveyor ovens

- Stores up to 260,000 readings

- USB data output to ElcoMaster® software, combines with other key inspection measurements

- Variable measurement intervals, date, time, °C/°F

Efficient

- Measure up to 6 different temperatures at one time

- Quick display shows maximum temperature, Cure-Index figure and pass/fail for each probe

- Start and stop logging at a pre-set temperature

Rugged

- Standard thermal barrier kits - ideal for single runs

- High temperature barrier and heat sinks available for longer times at high temperature

- Wide range of K-type temperature probes with strong, highly flexible and easy to clean Teflon® coated cables
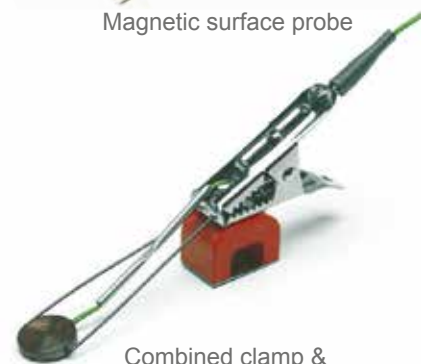
Clamp air probe

Clamp surface probe

Magnetic surface probe

Combined clamp & magnetic surface probe

Probe ID Tags

USB data output to ElcoMaster® software, combines with other key inspection measurements

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Oven Data Logger

ElcoMaster® is the easy to use software solution designed specifically for the management and assessment of your temperature profile, allowing you to generate professional inspection reports in seconds. Features include:

High Temperature Barrier Kit
Thermal barrier & heat sinks for longer time at temperature

Standard Thermal Barrier Kit
With thermal barrier - ideal for single runs

Oven Logger Set Up - Create and store unique oven profile setups, name each of the 6 channels, set sampling rates, number of batch runs, start/stop triggers and transfer them to the gauge.

Coating Parameters - Set up a library of individual paint types incorporating min, mid & max cure temperatures as well as the maximum absolute and minimum cross link temperatures.

Coating Datasheets - Save a copy of the coating's data sheet as a permanent record.

Product Probe Maps - Simply drag and drop up to 6 probe ID markers on to your product photo or drawing to record exact probe placement for each production run.

Customisable Templates - Create your own comprehensive inspection profile - simply choose a relevant gauge setup, paint parameter and product probe map from your library and assign them to your logger data, providing instant, meaningful and professional reports.

Elcometer Cure Value - Using the industry accepted cure value calculation ElcoMaster® provides instant Pass/Fail information by comparing the production run temperature to the coating supplier's cure requirements.

Graphical Reporting - Standard temperature profile graph, cure process and individual profile/cure graphs combined with the product probe map are available as standard.

Combined Reports - Fully customisable reports can be quickly generated - allowing oven profile reports to be combined with data from coating thickness, gloss & adhesion gauges.

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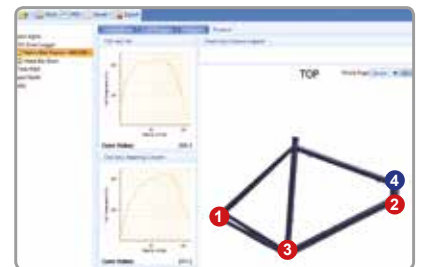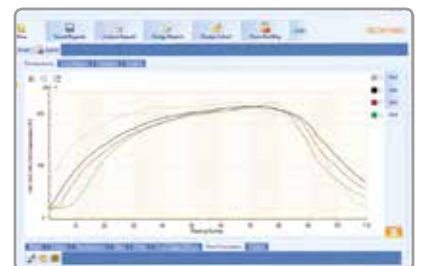| ElcoMaster® Software Oven Profiling Key Features	
Oven Logger set up & programming	■
Paint/Powder parameter library	■
Product probe maps	■
Fully customisable inspection templates	■
Selectable probe/channel traces	■
Statistical analysis by probe/channel Max, Min, standard deviation, coefficient of variation	■
Temperature profile, cure progress, histogram & individual cure value graphs against product	■
Time at temperature, time of peak difference	■
Time above maximum absolute & minimum cross link temperatures	■
Fully customisable inspection reports	■
Combined reports - coating thickness, gloss, adhesion, profile, climate, surface cleanliness	■
Report generator wizard & PDF generator	■
Email or export data	■
Import photos, data sheets, critical data, inspection notes, etc & include on inspection reports	■
Cloud computing - allows for cross site collaboration, including internal text messaging tool	■
Overlay temperature profiles, review and compare multiple oven profiles over time	■
Use additional data loggers for multiple channels or run overlays	■

Create and store unique oven profile setups and transfer them to the gauge.

Set up a library of individual paint parameters.

Individual product probe maps record the exact probe placement for each component.

Standard temperature profile and cure process graphs can be viewed at any time.

Statistical analysis by probe/channel.

Oven Temperature Profiling

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Technical Specification   C

Part Number	Description		Certificate
G215----2S	Elcometer 215 Oven Data Logger - Standard Thermal Barrier Kit		○
G215----2T	Elcometer 215 Oven Data Logger - High Temperature Thermal Barrier Kit*		○
Gauge Measurement Range	-200°C to 1300°C (-328°F to 2372°F)		
Gauge Operating Temperature	-30°C to 65°C (-22°F to 149°F) without thermal barriers		
Accuracy	5°C to 500°C: ±0.5°C (41°F to 932°F: ±1.0°F) >500°C: ±1.0°C (> 932°F: ±2.0°F)		
Resolution	0.1°C (0.2°F)		
Number of Channels	6		
Measuring Intervals	Adjustable from 8 per second to 1 per hour		
Memory	260,000 readings or 8 production runs		
Data Output	USB		
Power Supply	2 x AA batteries		
Gauge Dimensions	153 x 101 x 23mm (6 x 4 x 0.9")		
Gauge Weight	450g (15.8oz)		
Thermal Characteristics	Standard Thermal Barrier Kit	High Temperature Thermal Barrier Kit*	
	100°C (212°F) for 140 minutes 150°C (302°F) for 80 minutes 200°C (392°F) for 60 minutes 250°C (482°F) for 50 minutes	100°C (212°F) for 340 minutes 150°C (302°F) for 195 minutes 200°C (392°F) for 130 minutes 250°C (482°F) for 100 minutes 300°C (572°F) for 30 minutes	
Dimensions (in thermal barrier)	245 x 245 x 115mm (9.65 x 9.65 x 4.5")		
Weight (in thermal barrier)	4kg (8.8lb)	6kg (13.2lb)	
Packing List	Elcometer 215 Oven Data Logger, thermal barrier (Model S), thermal barrier with heat sink block (Model T), ElcoMaster® software, USB cable, carry case, 2 x AA batteries and operating instructions		

Probes & Accessories

	1.5m (4'9")	3m (9'8")	6m (19'7")
Clamp Air Probe	T21521275	T21521276	T21521277
Magnetic Air Probe	T21521287	T21521288	T21521569
Clamp Surface Probe	T21521278	T21521279	T21521280
Magnetic Surface Probe	T99921281	T99921282	T99921283
Combined Magnetic Clamp Air & Surface Probe	T21521284	T21521285	T21521286
Probe Identification Tags (Pack of 6)			T21521241
Standard Thermal Barrier			T21521222
High Temperature Thermal Barrier for Elcometer 215 Model T (Heat Sink Block not included)			T21521217
Heat Sink Block for High Temperature Thermal Barrier			T21521219
Data Logger to PC USB Cable			T21521220

○ Optional Calibration Certificate available.   *Includes Heat Sink