

Squirrel OMK610 Paint Oven Temperature Profiling System

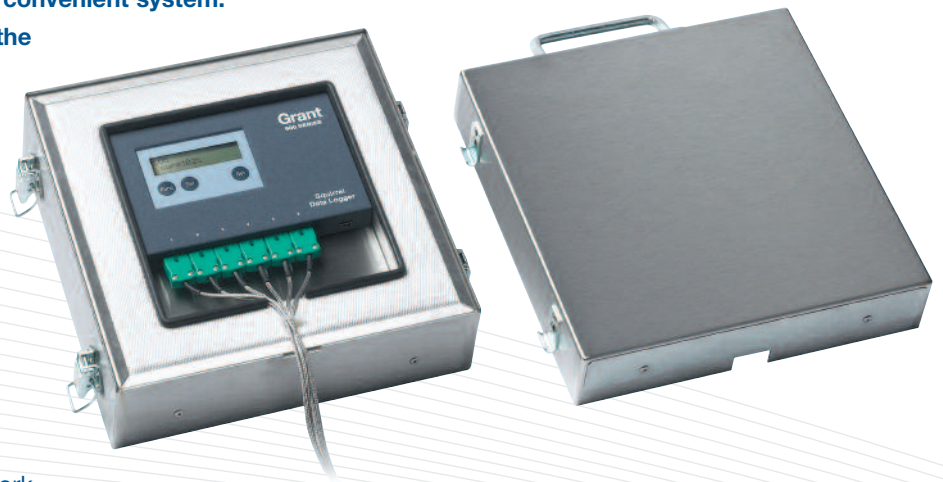
A comprehensive temperature
profiling system designed
exclusively for the paint and
finishing industries



Overview

Everything you need for paint oven temperature profiling and paint cure calculations in one easy-to-use and convenient system.

Having over 40 years experience in the manufacture of oven recorders for the coatings industry, Grant has designed the latest version of the OMK610 kit to boast many new features to assist in production quality control and reducing operating costs.



Why is it needed?

By measuring and recording the performance of the curing oven and work piece, the ideal level of cure can be achieved. Once achieved, it can then be reliably reproduced for optimum product quality and performance. Over or under curing of a coating can lead to a significant reduction in coating performance, including substrate adhesion problems, impaired appearance quality (colour and gloss mismatches), chalking or fading and premature failure leading to warranty claims.

Benefits of using the OMK610 kit

- » Meets paint manufacturers' specified cure parameters
- » Maintains a specified level of cure ensuring repeatable quality
- » Maximises oven usage and throughput
- » Minimises oven running (energy) costs
- » Archives data and results as part of any quality control system or supplier audit trail
- » Line operators can use the system without the need for a PC

The OMK610 kit comprises of an OQ610 data logger, PaintView software, thermal barrier, carry case, a quick start guide and a choice of temperature probes.



- » Direct report print out – no PC required in production
- » New enhanced thermal barrier giving maximum protection
- » New fast response probes for both air and surface temperature
- » PaintView data storage, report generation and analysis included
- » Up to 6 temperature channels

Multi-language LCD display in English, German, French, Spanish or Italian

The Squirrel OQ610 data logger can record up to 8 readings per second from all 6 temperature sensors and store 260,000 readings or 8 separate oven runs

Small, robust stainless steel, silicon free thermal barrier, gives up to 100 minutes protection at 250°C for the logger

At the end of a production run, the logger gives the user a percentage cure result on the integral screen. Further analysis or data storage is then possible



The logger can print out a concise, graphical report of each run directly via USB – without the need for a PC

Squirrel OQ610 »specifications

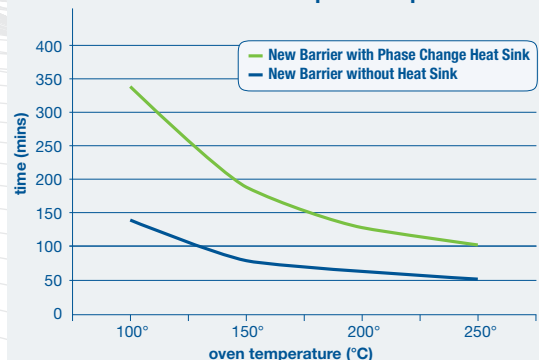
No. channels	6 K-type thermocouples
Temp range	-200°C to 1300°C
Accuracy	±0.5°C
Resolution	0.1°C
Log Interval	8 per sec to 1 per hour
Memory	260,000 readings or 8 production runs
Operating Temp	-30°C to 65°C
Display	LCD, alpha numeric, 2 by 16 characters
Power supply	Two AA cells
Data transfer	USB on-the-go (1.1 and 2.0)
Printer output	PCL3 e.g. Hewlet Packard colour or B&W
Size	153 x 101 x 23mm (l x w x h)
Weight	450g, coated steel case

Advanced stainless steel thermal barrier

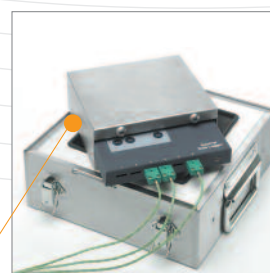
The all-stainless steel construction of the barrier produces a very robust and user friendly barrier for the data logger. The internal heat sink is also manufactured from stainless steel and uses advanced phase change technology, offering maximum protection and heat absorption.

	New Barrier with Phase Change Heat Sink				without Heat Sink			
Temp (°C)	100	150	200	250	100	150	200	250
Duration (mins)	340	195	130	100	140	80	60	50
Size	245 x 245 x 115 (l x w x h)							
Weight	6Kg				4Kg			

New Thermal Barrier temperature performance



The stainless steel phase change heat sink offers the best heat absorption available



Thermocouple probes

The K-type (NiCr-Ni) thermocouples are constructed to be very flexible and durable. They are triple insulated and meet the strict requirements of the DIN IEC 60584-2 standard. They are terminated with a standard miniature thermocouple plug (to IEC584) and are double crimped for additional strength.

Air probe



- » Available in 1.5, 3.0 or 6.0m cable lengths. Fast response due to small mass and good air flow through the sensor tip

Clip Surface Probe



- » Available in 1.5, 3.0 or 6.0m cable lengths
- » Suitable to clip to a non-magnetic component
- » Curved PTFE mounted sensor ensures good surface contact

Magnetic Surface Probe



- » Available in 1.5, 3.0 or 6.0m cable lengths
- » PTFE probe grip for safe removal with flexible metal probe arm giving excellent surface contact

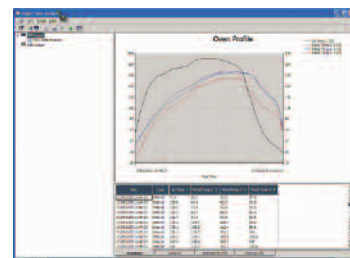
Probe identity tags



These numbered, brass tags (1 to 6) simply attach to the temperature probes to provide channel identification.

PaintView configuration and analysis software

The OMK oven profiling kits are supplied complete with a full version of the PaintView analysis and archiving PC software. This comprehensive software suite allows the user to configure the OQ610 data logger, retrieve the data via a USB connection, analyse and archive the data and to generate reports.



Time (min)	Temp (°C)	Temp (°F)	Temp (°C)	Temp (°F)	Temp (°C)	Temp (°F)	Temp (°C)	Temp (°F)	Temp (°C)	Temp (°F)
0	20	68	20	68	20	68	20	68	20	68
10	25	77	25	77	25	77	25	77	25	77
20	30	86	30	86	30	86	30	86	30	86
30	35	95	35	95	35	95	35	95	35	95
40	40	104	40	104	40	104	40	104	40	104
50	45	113	45	113	45	113	45	113	45	113
60	50	122	50	122	50	122	50	122	50	122
70	55	131	55	131	55	131	55	131	55	131
80	60	140	60	140	60	140	60	140	60	140
90	65	149	65	149	65	149	65	149	65	149
100	70	158	70	158	70	158	70	158	70	158

Features

- » Configure the OQ610 logger for all oven applications
- » Create paint cure data libraries (by manufacturer and / or paint type)
- » Set optimised cure temperature curves with upper and lower limits
- » Create graphical and statistical data reports via the Report Wizard, incorporating company logos and JPEG photographs
- » 5 user languages are included – English, German, French, Spanish, and Italian

Grant

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