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CURVEX 3 NANO OVEN LOGGER KIT

CX3040

DATASHEET

PRODUCT DESCRIPTION

The CurveX 3 Nano is a 4-channel oven recorder specially designed for can coaters. The KIT is supplied with 2 sets of different enclosing end-caps, making the CurveX 3 Nano suitable for both inside- and outside- can coating processes.

While can coating the time-temperature cycle must be controlled carefully – Together with the cans the oven recorder winds through the conveying system in the oven and makes up a complete temperature profile. With help of paint cure specifications it determines the curing process by calculating the cure index for you, enabling a simple pass / fail setup.

Behind a computer, you can analyse all gathered data with TQC Ideal Finish Analysis software or print a report with all measurement data and graphs.

FEATURES

- Operate through only 3 buttons
- Meaningful feedback of multi coloured LED's
- Factory calibrated for immediate use
- Downloads data through a standard USB port
- Rechargeable battery pack through USB connector
- Large memory of max. 160.000 readings
- Memory for 10 different batches, automatically overwrites the oldest results
- Programmable "paint type" memory for immediate "pass / fail" result
- Round design, only 53 mm in diameter, for use in can ovens
- Compatible with Ideal Finish Analysis software

SCOPE OF SUPPLY

- CX3040 CurveX 3 Nano
- CL0018 Factory calibrated, calibration certificate included
- CX5010 Ideal Finish Analysis Software license
- CM1105 USB cable
- GL0103 USB memory stick
- CX3060 Plastic carrying case
- CX9090 4x Thermocouple wire probes.
- CX2205 Set of 25 Self-adhesive attachment pads (T=250°C/482°F)

ORDERING INFORMATION

CX3040	CurveX 3 Nano Oven Logger with TQC Ideal Finish Analysis

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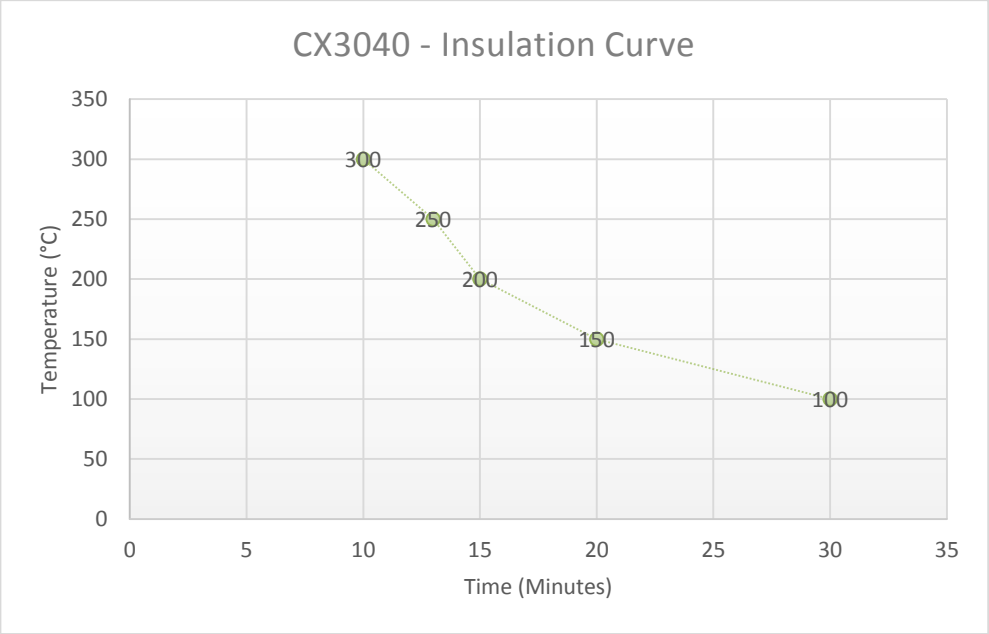
SPECIFICATIONS



CurveX 3 Nano logger

Measuring range	0°C to 300°C / 32°F to 572°F
Operating temperature:	0°C to 60°C / 32°F to 140°F
Maximum time in oven	10 minutes at 300 °C / 10 minutes at 572 °F 12 minutes at 250 °C / 10 minutes at 482 °F 15 minutes at 200 °C / 10 minutes at 392 °F 19 minutes at 150 °C / 10 minutes at 302 °F 30 minutes at 100 °C / 10 minutes at 212 °F
Accuracy	±1 °C / 1.8 °F
Channels	4
Sample interval time	1 s to 60 min
Memory	10 batches with 16000, or 1 batch with 160000 readings
Display	Three multi-colour LED's
Interface	USB
Housing material	Stainless Steel
Dimensions (D x W x H)	51x210x110 mm / 2.00 x8.27 x4.33 inch
Incl. End caps with guide slots	
Dimensions (D x W x H)	51 x 210 mm / 2.00 x 8.27 inch
Incl. End caps	
Power supply	Rechargeable battery
Battery life time	120 hour continuous use
Weight	850 g / 30 oz.

TQC Ideal Finish Analysis software

Supported Operating Systems	Windows Vista, Windows 7 and Windows 8 / 8.1
Platform	32 b or 64 b
Memory	32 MB
Required Hard Disk space	128 MB

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USE

The CurveX 3 Nano is mounted in an oven. The instrument measures and registers the temperature at several places of the work piece. The preset paint type specification is evaluated against the temperature over time resulting in a clear cure pass or fail. The measurements are uploaded to a PC via the oven temperature data logger‘s USB port and analysed using the Ideal Finish software program.

SPECIAL CARE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over.
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.
- Always keep the instrument in its case when not in use.
- We recommend annual calibration.

SAFETY PRECAUTIONS

- Do not exceed the specified time at temperature limits in order to protect the equipment.
- Wear insulated gloves when handling the CurveX 3 Nano CX3040.
- Maintenance and inspection should be carried out at the correct intervals.
- Operating personnel should be informed before starting with maintenance or repair work.
- Do not open the instrument. In case of malfunction always consult the manufacturer.

Do not overheat, crush, puncture, or otherwise damage the CurveX 3 Nano CX3040, this may result in leakage or explosion.

DISCLAIMER

The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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