

技术咨询与报价

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# CURVEX 3 BASIC OVEN LOGGER CX3005, CX3010

DATASHEET

## **PRODUCT DESCRIPTION**

The CurveX 3 Basic is an oven recorder designed for daily use in powder coating lines.

CurveX 3 Basic a 4-channel temperature data logger is built in a sturdy machined aluminium case that fulfils the basic needs for quality control in powder coating applications. Its ease of use and affordable price level makes it the ideal job-coaters instrument.



TQC has a wide range of interchangeable probes and heat barriers available that allow the CurveX 3 Basic to be used over the whole temperature range. All CurveX insulation boxes and CurveX probes, and the single heat absorber / bracket can be used with the CurveX 3 Basic. (See accessory list)

## **FEATURES**

- Operate through only 3 large 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
- Flat design, only 16 mm, for use in low clearance ovens
- · Compatible with Ideal Finish Analysis software

# **SCOPE OF SUPPLY**

# **CX3005 CurveX 3 Basic Data Logger** comes with:

- CX3004 CurveX 3 Basic datalogger
- CM1105 USB Cable
- GL0103 USB Memory Stick with Ideal Finish Analysis software
- CX5010 Ideal Finish Analysis License Key
- CL0018 Factory calibrated, calibration certificate included
- CX3059 Small protective case

## CX3010 CurveX 3 Basic Data Logger Kit comes with

- CX3004 CurveX 3 Basic datalogger
- CM1105 USB Cable
- GL0103 USB Memory Stick with Ideal Finish Analysis software
- CX5010 Ideal Finish Analysis License Key
- CL0018 Factory calibrated, calibration certificate included
- CX2005 Insulationbox
- CX3050 Insulation box logger bracket
  - CX3060 Plastic Carrying Case

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#### ORDERING INFORMATION

CX3005 CurveX 3 Basic Oven Logger CX3010 CurveX 3 Basic Oven Logger Kit

## **SPECIFICATIONS**

**CurveX 3 Basic logger** 

Measuring range  $0 \,^{\circ}\text{C}$  to  $500 \,^{\circ}\text{C}$  /  $32 \,^{\circ}\text{F}$  to  $932 \,^{\circ}\text{F}$  Operating temperature:  $0 \,^{\circ}\text{C}$  to  $60 \,^{\circ}\text{C}$  /  $32 \,^{\circ}\text{F}$  to  $140 \,^{\circ}\text{F}$ 

Accuracy  $\pm 1 \,^{\circ}\text{C} / 1.8 \,^{\circ}\text{F}$ 

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 Anodised Aluminium

Dimensions (D x W x H) 100 x 85 x 16 mm / 3.94 x 3.35 x 0.63 inch

Power supply Rechargeable battery

Battery life time 1200 hour continuous use, 27 years in stand-by

Weight 190 g / 6.7 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

# USE

The CurveX 3 Basic is placed in an insulated box before it passes through the 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**

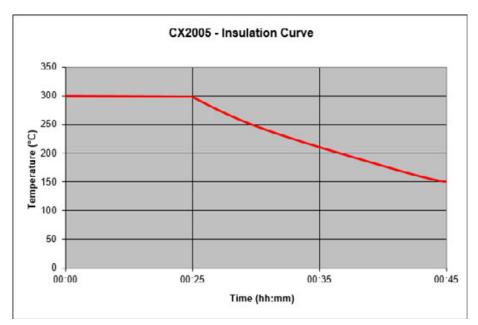
- Though robust in design, this instrument is precision-machined. Never drop it or knock it over.
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like 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.

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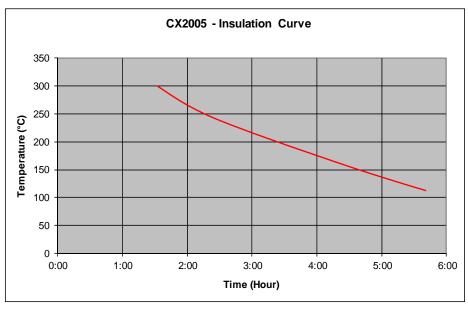




## **TEST CONDITIONS FOR USE WITHOUT HEAT ABSORBER**



Tested in combination with the Insulation Box CX2005 and Insulation Box Logger Bracket CX3050 with a start temperature of 20°C (68°F). (So without heat absorber)



Tested with the **insulation box CX2005** in combination with the **energy absorber CX2011** (a high density energy-collecting media) with a start temperature of 20°C (68°F).





# **ACCESSORIES**

CX2021 CX2022 CX2026 CX2023 CX2024	Air Air Air Air Air	Mounting Spring clamp Spring clamp Spring clamp	Coiled polyurethane Coiled polyurethane	1500 mm / 59,06 inch	Temperature
CX2022 CX2026 CX2023 CX2024	Air Air	Spring clamp	. ,	1500 111111 / 55100 111111	300℃ / 572°F
CX2022 CX2026 CX2023 CX2024	Air Air		Collea polyarethalle	3000 mm / 118,11 inch	300°C / 572°F
CX2026 CX2023 CX2024		1 2 1	Coiled polyurethane	5000 mm / 196,85 inch	300°C / 572°F
CX2023 CX2024	Air	Spring clamp	Coiled polyurethane	10500 mm / 34,45 ft	300°C / 572°F
CX2024		Spring clamp	Stainless steel braided lead	1500 mm / 59,06 inch	480°C / 896°F
	Air	Spring clamp	Stainless steel braided lead	3000 mm / 118,11 inch	480°C / 896°F
	Air	Magnet	Coiled polyurethane	1500 mm / 59,06 inch	300°C / 572°F
CX2068	Air	Magnet `	Coiled polyurethane	3000 mm / 118,11 inch	300°C / 572°F
	Air	Magnet	Coiled polyurethane	5000 mm / 196,85 inch	300°C / 572°F
			e probes for CurveX		
Art. No	Application		Cable Type	Cable Length	Max
CV2020	Surface	Mounting	Cailed nolywrathana chaath	1500 mm / 50 06 inch	Temperature
		Spring clamp	Coiled polyurethane sheath		300°C / 572°F
	Surface	Spring clamp	Coiled polyurethane	3000 mm / 118,11 inch 5000 mm / 196,85 inch	300°C / 572°F
	Surface	Spring clamp	Coiled polyurethane	•	300°C / 572°F
	Surface Surface	Spring clamp	Coiled polyurethane	10500 mm / 34,45 ft	300°C / 572°F 300°C / 572°F
		Vice clamp	Coiled polyurethane Stainless steel braided lead	10500 mm / 34,45 ft	
	Surface	Spring clamp		1500 mm / 59,06 inch	480°C / 896°F
	Surface	Spring clamp	Stainless steel braided lead	3000 mm / 118,11 inch	480°C / 896°F
	Surface	Magnet	Coiled polyurethane	1500 mm / 59,06 inch	300°C / 572°F
	Surface	Magnet	Coiled polyurethane	3000 mm / 118,11 inch	300°C / 572°F
	Surface	Magnet	Coiled polyurethane	5000 mm / 196,85 inch	300°C / 572°F
	Air	Magnet	Coiled polyurethane Stainless steel braided lead	10500 mm / 34,45 ft	300°C / 572°F
	Surface	Magnet		1500 mm / 59,06 inch	480°C / 896°F
	Surface	Magnet	Stainless steel braided lead	3000 mm / 118,11 inch	480°C / 896°F
	Universal	Ring	Coiled polyurethane	1500 mm / 59,06 inch	300°C / 572°F
	Universal	Ring	Coiled polyurethane	3000 mm / 118,11 inch	300°C / 572°F
	Universal	Ring	Coiled polyurethane	5000 mm / 196,85 inch	300°C / 572°F
	Universal	Ring	Stainless steel braided lead	1500 mm / 59,06 inch	480°C / 896°F
CX2086	Universal	Ring	Stainless steel braided lead	3000 mm / 118,11 inch	480°C / 896°F
	Universal	Ring	Inconel tube	1500 mm / 59,06 inch	1000°C / 1832°F
	Universal	Ring	Inconel tube	3000 mm / 118,11 inch	1000°C / 1832°F
	Universal	Ring	Inconel tube	5000 mm / 196,85 inch	1000°C / 1832°F
	Air/Surface	Wire	Coiled polyurethane	1500 mm / 59,06 inch	300°C / 572°F
	Air/Surface	Wire	Coiled polyurethane	3000 mm / 118,11 inch	300°C / 572°F
	Air/Surface	Wire	Coiled polyurethane	5000 mm / 196,85 inch	300°C / 572°F
	Air/Surface	Wire	Stainless steel braided lead	1500 mm / 59,06 inch	480°C / 896°F
	Air/Surface	Wire	Stainless steel braided lead	3000 mm / 118,11 inch	480°C / 896°F
	Air/Surface	Wire	Inconel tube	1500 mm / 59,06 inch	1000°C / 1832°F
CX2094	Air/Surface	Wire	Inconel tube	3000 mm / 118,11 inch	1000°C / 1832°F
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300°C / 572°F

300°C / 572°F

300°C / 572°F

included

CX2014\*

CX2011\*

intra-red air temperature probes for Curvex						
Art. No	Application	Probe Mounting	Cable Type		Cable Length	Max Temperature
CX2097	Air	Spring clamp	Stainless steel	braided lead	1500 mm / 59,06 inch	480°C / 896°F
CX2098	Air	Spring clamp	Stainless steel	braided lead	5000 mm / 196,85 inc	h 480°C / 896°F
Infra-r	ed surface	temperatu	ire probes for	CurveX		
Art. No	Application	Probe Mounting	Cable Type		Cable Length	Max Temperature
CX2095	Surface	Spring clamp	Stainless steel	braided lead	1500 mm / 59,06 inch	480°C / 896°F
CX2096	Surface	Magnet	Stainless steel	braided lead	1500 mm / 59,06 inch	480°C / 896°F
CX2099	Surface	Magnet	Stainless steel	braided lead	5000 mm / 196,85 inc	h 480°C / 896°F
Standard insulation boxes for CurveX						
Art. No	Dimensions Depth	Dimensions Width	Dimensions Height	Approximate Weight	Heat Sink	Max Temperature
CX2004	240 mm /	105 mm /	50 mm /	1600 g /	included	300°C / 572°F

3,53 lbs

1700 g/

3,75 lbs

2650 g/

5,85 lbs

4200 g/

9,26 lbs

9,45 inch

9,45 inch

10,04 inch

10,04 inch

CX2009 240 mm /

CX2003 255 mm /

CX2005 255 mm/

## Absolute silicone free insulation haves for CurveX

4,13 inch

105 mm /

4,13 inch

8,86 inch

225 mm /

8,86 inch

225 mm / 7

1,97 inch

60 mm /

2,36 inch

0 mm /

2.76 inch

140 mm /

5,51 inch

Absolute silicolle lifee ilisulation boxes for Curvey						
Art. No	Dimensions Depth	Dimensions Width	Dimensions Height	Approximate Weight	Heat Sink	Max Temperature
CX2300	240 mm /	225 mm/	140 mm /	4200 g	CX2011*	180°C / 356°F
	9,45 inch	8,86 inch	5,51 inch	9,26 lbs		
CX2017	240 mm /	225 mm /	140 mm /	4200 g	CX2011*	500°C / 932°F
	9,45 inch	8,86 inch	5,51 inch	9,26 lbs		
CX2002	280 mm /	230 mm /	180 mm /	8000 g /	CX2011 *	500°C / 932°F
	11,02 inch	9,06 inch	7,09 inch	17,64 lbs	CX2012 *	

<sup>\*</sup> to be ordered separately

# **Other Accessories**

CX2013	Heat sink LDPE Add-on module for	insulation box CX2002, CX2017 and 2005
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CX2014 Heat sink U-shaped for insulation box CX2003

CX2077 Ideal Finish Analysis Software on CD with printed manual in box

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CX2011 Heat sink LDPE for insulation box CX2002, CX2017 and CX2005

CX2012 Extra heat sink for insulation box CX2002

CX3050 Insulation box logger bracket

CX2100 CurveX Basic probe identification kit (1-6)

CM1105 USB Cable





#### **SAFETY PRECAUTIONS**

- Do not exceed the specified time at temperature limits in order to protect the equipment.
- 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. Not suitable to be put in the sun or in the high light

## **DISCLAIMER**

The right of technical modifications is reserved.

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