



Fluke Process Instruments

# Oven Tracker<sup>®</sup> XL2

## Thermal Barriers

**Discover the XL2 range of thermal barriers ...  
unique and better than ever!**

The standard XL2 barrier, designed specifically for use on automotive paint lines, has a patented Silicone-free construction, eliminating concerns for contamination and possible damage to paint finishes caused by silicone products, and helps you provide the high quality needed in your process. Weighing less than 4 kg (9 lbs) ensures easy, safe handling and transportation.

Datapaq<sup>®</sup> also provides a range of thermal barriers to suit special process needs:

- **High temperature protection** – PTFE/Dacromet cure
- **Long duration protection** – aluminum aging; multiple ovens in single run (Ecoat, surfacer base etc.)
- **Waterproofing** dry-off ovens
- **Low height clearance** – 2 and 3-piece can manufacture
- **16 channel operation in single unit** – automotive optimization studies

### No paint contamination or defect risk

The patented Silicone-free barrier construction eliminates concerns for contamination and possible damage to paint finishes caused by silicone products.

### Thermal protection you can trust

Ceramic insulation and phase-change heatsink technology provides dual heat protection and enables safe logger operation for 3 hrs at 200°C (392°F). This allows multiple runs and eliminates the chance of damage to the data logger during unplanned process delays.

### Easy access to data logger

With the redesigned barrier lid, even a bulky gloved hand can easily access the logger. You can even check the data logger status without removing it from the barrier.

### Secure lid guaranteed

Strong, secure catches with locking pins guarantee the lid remains securely in place.

### Safe handling

Aluminum construction ensures the barrier is lightweight, compact and easy to handle. Carry in one hand with magnetic thermocouples attached to the ferrous lid plate for easy transportation.

### Damage protection

Heatsink allows easy cable routing from the data logger out of the barrier.

### TB0090 Standard XL2 Thermal Barrier

<b>Weight*</b>	Thermal Barrier 2.65 kg (5.85 lbs)				
	Heatsink (1 x TB9950) 1.0 kg (2.2 lbs)				
<b>Dimensions (H x W x L)</b>	134 mm x 187 mm x 296 mm (5.3 in x 7.4 in x 11.7 in)				
<b>Heatsink</b>	Phase change temperature 58°C (136°F)				
<b>Temperature</b>	100°C	150°C	200°C	250°C	300°C
	(212°F)	(302°F)	(392°F)	(482°F)	(572°F)
<b>Duration (hours)</b>	11	5.0	3.0	1.8	1.0

**Processes:** automotive assembly; automotive component supply; general paint/powder/E-coat OEM applications; large custom coaters.

*\*Thermal barrier weights specified on this datasheet do NOT include the data logger.*



# TECHNICAL SPECIFICATIONS

## TB0091 Low Height XL2 Thermal Barrier

<b>Construction</b>	Aluminum/Silicone free				
<b>Weight*</b>	Thermal barrier 2.1 kg (4.6 lbs) Heatsink (1 x TB9115B) 1.1 kg (2.4 lbs) Insert tray (1 x TB9121) 0.2 kg (0.45 lbs)				
<b>Dimensions (H x W x L)</b>	104 mm x 187 mm x 296 mm (4.1 in x 7.4 in x 11.65 in)				
<b>Heatsink</b>	Stainless Steel, phase change temperature 58°C (136°F)				
<b>Temperature</b>	100°C (212°F)	150°C (302°F)	200°C (392°F)	250°C (482°F)	300°C (572°F)
<b>Duration (minutes)</b> With heatsink (TB0091-WH)	270	150	105	75	48
<b>Duration (minutes)</b> With heatsink (TB0091-IT)	106	66	49	42	35

**Processes:** 2-piece can manufacture (IBO); general low height, mesh belt ovens; portable system for traveling paint representatives.

## TB0080 High Temperature Thermal Barrier

<b>Construction</b>	Stainless Steel (304 grade)				
<b>Catches</b>	Over center catches				
<b>Weight*</b>	Thermal barrier 6.7 kg (14.8 lbs) Heatsink (1 x TB1001) 1.0 kg (2.2 lbs); (1 x TB9115B) 1.1 kg (2.3 lbs)				
<b>Dimensions (H x W x L)</b>	150 mm x 215 mm x 335 mm (5.9 in x 8.5 in x 13.2 in)				
<b>Heatsink</b>	Stainless Steel, phase change temperature 58°C (136°F)				
<b>Temperature</b>	200°C (392°F)	300°C (572°F)	400°C (752°F)	500°C (932°F)	600°C (1112°F)
<b>Duration (minutes)</b>	300	180	120	100	75

**Processes:** High temperature coating cure applications, such as PTFE and Dacromet.

## TB0081 Long Duration Thermal Barrier

<b>Construction</b>	Stainless Steel (304 grade)				
<b>Weight*</b>	Thermal barrier 9.0 kg (19.8 lbs) Heatsink (1 x TB9963) 1.5 kg (3.3 lbs); (1 x TB1001) 1.0 kg (2.2 lbs)				
<b>Dimensions (H x W x L)</b>	182 mm x 236 mm x 370 mm (7.2 in x 9.3 in x 14.6 in)				
<b>Heatsink</b>	Stainless Steel, phase change temperature 58°C (136°F)				
<b>Temperature</b>	100°C (212°F)	150°C (302°F)	200°C (392°F)	250°C (482°F)	300°C (572°F)
<b>Duration (hours)</b>	24	13	9	6	—

**Processes:** Aluminum aging/long low temperature cure. Monitor complete automotive paint cure line with a single uninterrupted run (E-coat; primer surfacer; base coat; clear coat).

## TB5010-XL IP65 Waterproof Thermal Barrier

<b>Construction</b>	Stainless Steel (304 grade)				
<b>Weight*</b>	Thermal barrier 4.5 kg (9.9 lbs) Heatsink (1 x TB9963) 1.5 kg (3.3 lbs)				
<b>Dimensions (H x W x L)</b>	100 mm x 219 mm x 393 mm (3.9 in x 8.6 in x 15.5 in)				
<b>Heatsink</b>	Stainless Steel, phase change temperature 58°C (136°F)				
<b>Temperature</b>	100°C (212°F)	150°C (302°F)	200°C (392°F)	250°C (482°F)	300°C (572°F)
<b>Duration (hours)</b>	10	5.5	3.75	2.5	—

**Processes:** Dry-off ovens or processes where there is a risk of the system traveling via water shower/rinse operations.

## TB0083 XL2 DIB Thermal Barrier (XL2 8-16 Channels)

<b>Construction</b>	Stainless Steel (304 grade)/Silicone free				
<b>Weight*</b>	Thermal barrier 4.5 kg (9.9 lbs) Heatsink (1 x TB9960) 1.45 kg (3.2 lbs)				
<b>Dimensions (H x W x L)</b>	1144 mm x 172 mm x 390 mm (5.7 in x 6.8 in x 15.4 in)				
<b>Heatsink</b>	Stainless Steel, phase change temperature 58°C (136°F)				
<b>Temperature</b>	100°C (212°F)	150°C (302°F)	200°C (392°F)	250°C (482°F)	300°C (572°F)
<b>Duration (hours)</b>	11	5	3	1.8	1

**Processes:** Automotive assembly. Monitoring new model paint lines during optimization studies that require up to 16 channels.

\*Thermal barrier weights specified on this datasheet do NOT include the data logger.



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### Worldwide Service

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