

DATAPAQ[®] AutoPaq

the Premium Automotive Paint Profiling Solution

The DATAPAQ AutoPaq is a customized thermal profiling system for temperature monitoring of paint, adhesive and sealant cure processes used in the automotive assembly market. Offering up to 20 channels of measurement in a single system, the DATAPAQ AutoPaq is the perfect tool for performing detailed cure validation of new installations or optimizing existing lines for new models. With real time RF capability, the system may also be the preferred choice for routine live monitoring of paint operations as part of standard QA procedures.



Automotive paint line



AutoPaq setup on car body



AutoPaq 20 channel system
(TP3026 and TB0050)

FEATURES THAT BENEFIT

- Up to 20 measurement channels allowing comprehensive monitoring of entire car body shell as part of either routine QA or in-depth product launch validation
- Measurement accuracy of $\pm 1.6\text{ }^{\circ}\text{C}$ ($\pm 2.9\text{ }^{\circ}\text{F}$), providing data you can trust and make decisions with confidence
- Robust stainless steel logger design for reliable operation run after run with minimal risk of thermal damage
- Unique Bluetooth[®] communications providing easy and quick setup and cable free data retrieval
- Multiple run capability ensuring maximized efficiency on the paint shop floor oven to oven
- Range of silicone-free barriers providing safe and contamination-free options to suit single and multi-run operations
- Purpose-designed, robust and accurate thermocouple range to suit all body styles, whether steel, aluminum or even composite
- RF telemetry options for real-time live monitoring options for batch and even conveyORIZED oven cure operations
- Oven Insight[™] Professional software written for the automotive paint engineer to perform process QA or full validation quickly, efficiently and accurately

SYSTEM VALUE

With the DATAPAQ AutoPaq system, you can take control of your automotive paint operation, understand how your car body is heating up in detail and have the means to optimize process characteristics with confidence, not guesswork.

- **Product finish quality** – prove that your oven provides the necessary cure schedule to give the physical and cosmetic properties you require; prevent under cure or over cure issues and the risk of downtime, costly rejects or rework and product recalls
- **Process validation** – create the certified traceable profile report to prove to any customer and regulatory body (Qualicoat; ISO9000; CQI-12) that your process is in control; launch new models quicker with efficient process optimization strategies driving full production sooner
- **Optimize productivity and efficiency** – use accurate profile data to optimize your oven; maximize line speed to give optimal productivity without risking product quality; make oven temperature set-point adjustments to minimize power consumption – potential energy cost savings over the next 12 months
- **Rapid problem solving** – highlight oven problems immediately and use data information to recommend corrective action; prove that any service or maintenance carried out has been successful – each lost hour of production is costly to your company

TECHNICAL SPECIFICATIONS



TP3016 and TP3026 data logger



TB0021 thermal barrier



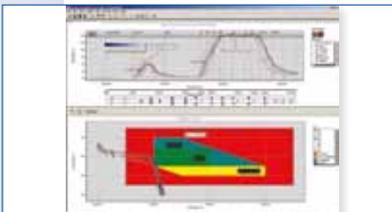
TB0050 thermal barrier



TB5050 thermal barrier



Thermocouples



Insight Professional software

DATA LOGGER

Model Number	TP3016	TP3026
Number of channels	10	20
Case	304 stainless steel	
Min sample interval	3 channel 0.1 s, 10 channels 0.3 s, 20 channels 1.0 s	
Thermocouple type	K (other types available on request)	
Logger accuracy	±0.3 °C (±0.5 °F)	
Maximum operating temperature	70 °C (158 °F)	
Temperature range	-100 °C to 1370 °C (-148 °F to 2498 °F)	
Memory	3.2 million data points**	3.6 million data points**
Multiple-run	Logger stores up to 10 separate runs	
Battery	NiMH rechargeable (alkaline battery cassette option)	
Battery life	1 min sample interval 70 °C (158 °F) = 200 hours	1 min sample interval 70 °C (158 °F) = 150 hours
Logger communications	USB or Bluetooth*	
Dimension L×W×H	200 mm × 98 mm × 20 mm (7.9 inch × 3.9 inch × 0.8 inch)	
Weight	1.15 kg (2.5 lbs)	1.10 kg (2.4 lbs)
Telemetry capability	hardwired telemetry – standard (cable or Bluetooth*) RF radio telemetry – option (refer to TP3 RF data sheet)	

* For full specification information including telemetry and Bluetooth approvals, refer to TP3 logger and TP3 RF data sheets.

** Note that memory can be limited by battery life restrictions.

THERMAL BARRIERS

Barrier model	TB0021	TB0050*	TB5050
Weight	6.2 kg (13.7 lbs)	7.6 kg (16.8 lbs)	3.4 kg (7.5 lbs)
Silicone free	yes	yes	yes
Dimension (H×W×L)	130 × 196 × 292 mm (5.1 × 7.7 × 11.5 in)	130 × 196 × 336 mm (5.1 × 7.7 × 13.2 in)	74 × 181 × 378 mm (2.8 × 7.1 × 14.9 in)
Suitable logger	TP3016 (10 channel)	TP3026 (20 channel)	TP3026 (20 channel)
Heat sinks	TB1001 ×2	TB1001 ×2	NA

* Barrier has top magnetic probe fixing plate to aid transport/storage.

Temperature duration	100 °C (212 °F)	150 °C (302 °F)	200 °C (392 °F)	250 °C (482 °F)	300 °C (572 °F)
TB0021 hours	11	5	3	1.8	1
TB0050 hours	9	4	2.5	1.4	0.8
TB5050 minutes	125	65	54	45	40

THERMOCOUPLES

Our comprehensive range of thermocouple types will suit the application and product material type, whether steel, aluminum, plastic or even composites.

Reference XL2 thermocouple data sheets for full details.

SOFTWARE FEATURES

Oven Tracker Insight analysis software allows comprehensive data review, analysis and reporting designed specifically for the automotive paint application, converting raw temperature data into meaningful information: DATAPAQ value (index of cure), bake chart software, auto SPC, ramp up analysis and temperature difference probe tool. Full reporting includes product probe map and linked photo library (Reference XL2 Insight software data sheet for full details).

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Worldwide Service

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