

### TECHNICAL DATA

# 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 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.



### 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
- Robust stainless steel logger design for reliable operation run after run with minimal risk of thermal damage
- Bluetooth communication enables reset, download and thermocouple checking from PC and mobile app
- 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 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



*AutoPaq 20 channel system*

### 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 to give the physical and cosmetic properties you require; prevent under cure or over cure issues
- 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
- Optimize productivity and efficiency – use 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
- Rapid problem solving – highlight oven problems immediately and use data to recommend corrective action; prove that any service or maintenance carried out has been successful

## Technical Specifications

### Data Loggers

Model	TP6116	TP6216
Number of channels	10	20
Case	304 stainless steel	
Thermocouple type	K (other types available on request)	
Sample interval	0.1 s to 50 min no telemetry 2 s to 50 min RF telemetry*	
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	4 million data points	
Battery	NiMH rechargeable (alkaline battery cassette option)	
Battery life	typically 200 hours, dependent on sample interval	
Logger communications	USB or Bluetooth*	
Dimension L×W×H	197 x 97 x 20 mm (7.8 x 3.8 x 0.8 inches)	
Telemetry capability	RF radio telemetry – option (refer to TP6 RF data sheet)	

\* For full specification information including telemetry and Bluetooth approvals, refer to Datapaq TP6 radio telemetry datasheet.



TP6116 and TP6216 data logger



TB0021 thermal barrier



TB0050 thermal barrier

### Thermal Barriers

Model	TB0021	TB0050*
Weight	6.2 kg (13.7lbs)	7.6 kg (16.8lbs)
Silicone free	yes	yes
Dimension (H×W×L)	130 × 196 × 292 mm (5.1 × 7.7 × 11.5in)	130 × 196 × 336 mm (5.1 × 7.7 × 13.2in)
Suitable logger	TP6116 (10 channel)	TP6216 (20 channel)
Heat sinks	TB1001 ×2	TB1001 ×2

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

Temperature duration (hours)	100 °C (212 °F)	150 °C (302 °F)	200 °C (392 °F)	250 °C (482 °F)	300 °C (572 °F)
TB0021	11 h	5 h	3 h	1.8 h	1 h
TB0050	9 h	4 h	2.5 h	1.4 h	0.8 h

### Thermocouples

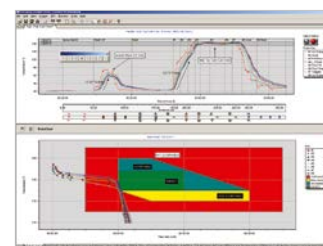
Our comprehensive range of thermocouple types will suit the application and product material type, whether steel, aluminum, plastic or even composites.



Thermocouples

### 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).



Insight Professional software

## Fluke Process Instruments

#### Americas

Everett, WA USA  
Tel: +1 425 446 6780  
sales@flukeprocessinstruments.com

#### EMEA

Cambridge, UK  
Tel: +44 1223 652 400  
sales@flukeprocessinstruments.co.uk

#### China

Beijing, China  
Tel: +86 10 6438 4691  
sales@flukeprocessinstruments.com.cn

#### Asia East and South

India Tel: +91 22 2920 7691  
Singapore Tel: +65 6799 5596  
sales.asia@flukeprocessinstruments.com

#### Worldwide Service

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