DATAPAQ® MonoPaq2
Monoblock Oven Profiling Solution

The DATAPAQ MonoPaq2 is an improved oven profiling system designed specifically for monitoring coating cure ovens used in the manufacturing of aluminum bottles, aerosols and collapsible tubes by monoblock processes. The DATAPAQ MonoPaq2 is capable of monitoring both pin (OBO) and basket ovens (IBO) used to cure external tube and internal tube coatings.

DATAPAQ MonoPaq2 system in use on pin oven (OBO)

Barrier TB0072 fitted with pin mount bracket TB0073

DATAPAQ MonoPaq2 system in use on IBO basket oven

DATAPAQ MonoPaq2 combines the state-of-the-art DATAPAQ Q18 micro data logger with a custom thermal barrier and mounting brackets to mount the system safely and efficiently either on OBO or IBO oven lines. The reduced size, 4 channel DATAPAQ Q18 micro data logger is perfect for these processes and allows a significant reduction in the thermal barrier size needed. This provides for easier, safer operation and extends the range of lines through which the system can be used to processes with even the most demanding space limitations.

HOW CAN IT BENEFIT YOUR PROCESS?

Improve Quality by Confirming and Controlling Coating Cure
- Prove that every product experiences the specified time at temperature to achieve quality cure
- Eliminate cold spots and temperature spikes

Rapid Fault Finding and Problem Prevention
- Locate problems within the oven quickly, eliminating costly downtime
- By regular monitoring, identify process changes and correct them before they become critical

Process Optimization
- Optimize oven characteristics to maximize productivity and fuel economy
- Achieve process uniformity from line to line and batch to batch

Validation
- Create fully certified and traceable documentation to satisfy quality audits and guarantee customer confidence

SYSTEM FEATURES

DATAPAQ Q18 Micro Data Logger
- Reduced logger volume is ideal for use in limited space processes
- Four measurement channels sample rapidly at a maximum of 0.05 s intervals, giving high profile resolution and measurement accuracy up to an operating temperature of 85 °C (185 °F)
- Micro-miniature thermocouple options to suit a wide range of processes
- User replaceable 2 cell NiMH rechargeable battery

Barrier
- Barrier volume and weight reduced by 43% over original barrier
- User interchangeable bracket/mount options to suit OBO or IBO ovens

OBO System
- Integral barrier mount allows safe and quick fitting to a single pin
- Barrier mount customizable for pins 3 – 6 mm (0.12 – 0.24 in) diameter
- System installation by single operator with gloved hand without need to remove pin tip
- Reduced barrier size fitting to lines with pin spacing >45 mm (1.8 in)

IBO System
- Reduced barrier size allows placement into wider range of product baskets
- Interchangeable basket catch to suit different basket sizes

The Worldwide Leader in Temperature Profiling

TECHNICAL SPECIFICATIONS

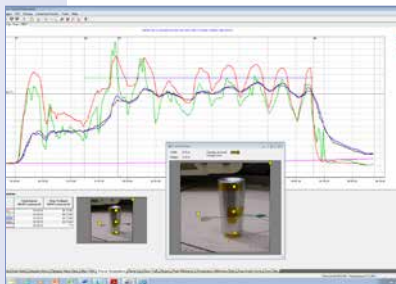

DATAPAQ Q18 micro data logger DQ1804

Pin line mount bracket TB0073

IBO mount catch TB0074/75/76

Adhesive patch probe PA1620/21   Glass fiber probe PA1614/15

DATAPAQ Oven Tracker Insight software

DATAPAQ Q18 MICRO DATA LOGGER

Type	DQ1804
Dimensions h × w × l	17 × 35 × 149 mm (0.67 × 1.38 × 5.87 in)
Channels	4 × type K
Thermocouple	Micro-miniature plug and socket
Maximum logger temp.	85 °C (185 °F)
Sample interval	0.05 sec to 10 min
Measurement range	-200 to 1,370 °C (-328 to 2,498 °F)
Accuracy	±0.5 °C (±0.9 °F)
Memory	32,000 readings per channel
Battery	2 cell NiMH user replaceable (BP1077)
Battery life	20 hours (0.5 s at 25 °C [77 °F])
Weight	155 g (0.34 lbs)

THERMAL BARRIER

Model number	TB0072
Construction	Stainless steel with microporous insulation
Dimensions d × w × vh	41 × 48 × 195 mm (1.61 × 1.89 × 7.68 in)
Weight	311 g (0.69 lbs)

Temperature	200 °C (392 °F)	250 °C (482 °F)	300 °C (572 °F)
Thermal protection	11 min	10 min	9 min

PIN LINE MOUNTING BRACKET TB0073

Mounting bracket used with the monoblock barrier TB0072 to allow fitting directly to single product pin (diameter 3−6 mm [0.12−0.24 in]) on the pin chain. Mount bracket adjusted to suit pin diameter.

Weight	390 g (0.86 lbs) (barrier + mount)
Minimum pin spacing	>45 mm (1.8 in)

IBO LINE MOUNTING CATCH TB0074 & TB0075

Mounting catch used with the monoblock barrier TB0072 to allow secure fitting in the monoblock IBO product basket. Catch screwed directly to barrier TB0072 and rotated to secure barrier within basket cavity.

Type	TB0074 Small	TB0075 Medium	TB0076 Large
Width when active	55 mm (2.16 in)	70 mm (2.76 in)	95 mm (3.74 in)
Basket opening width	51 mm (2.0 in)	59 mm (2.32 in)	72 mm (2.83 in)
Weight (barrier + catch)	343 g (0.76 lbs)	350 g (0.77 lbs)	363 g (0.80 lbs)

THERMOCOUPLES

PA1620 Adhesive patch thermocouple, length 0.3 m (12 in), micro-miniature plug PTFE < 265 °C (509 °F)
PA1621 Adhesive patch thermocouple, length 0.5 m (20 in), micro-miniature plug PTFE < 265 °C (509 °F)
PA1614 Fast response exposed junction probe, length 0.3 m (12 in), micro-miniature plug GF < 355 °C (671 °F)
PA1615 Fast response exposed junction probe, length 0.5 m (20 in), micro-miniature plug GF < 355 °C (671 °F)

INSIGHT™ SOFTWARE

DATAPAQ Oven Tracker® Insight analysis software allows comprehensive data review, analysis and reporting of the monoblock process. Available in either basic or professional packages.
Refer to Insight analysis data sheet for full specification.

Fluke Process Instruments