DATAPAQ®
Fluke Process Instruments

WicketPaq

the three piece can profiling solution

The Datapaq® WicketPaq system is a customized profile system designed specifically for temperature monitoring of wicket ovens in the manufacturing of three piece cans.

With the WicketPaq system, a profile of metal sheet and environmental temperatures can be collected to confirm either print ink or lacquer cure with the Wicket oven.

Designed to clip onto a sheet traveling through the oven, the whole system and test sheet can be installed quickly and easily without disturbing a production run or altering the oven operating conditions.

Using fast response thermocouples, accurate product temperature can be monitored to confirm correct cure of print ink or lacquer critical to product quality. Positioning probes over the surface area of the sheet allows temperature balance within the oven and insures uniform curing over the sheet.

Collect the profile temperature data and with the Datapaq Insight™ analysis software, convert it into useful information. Such information can be used to not only guarantee product quality, but allow optimization of the cure process to maximize productivity and profitability.

Contour plot of temperature uniformity over Wicket sheet

SYSTEM FEATURES

- WicketPaq clips directly to sheet
- Lightweight/compact
- Up to 10 points of measurement (monitoring over entire sheet area)
- Contour plot of temperature uniformity over Wicket sheet
- Fully programmable sample interval and start trigger
- Fast response adhesive patch probes
- Powerful Datapaq Insight™ software

SYSTEM BENEFITS

Prevent Under or Over Cure Problems:

- Reaction of can contents (foods) with metal substrate – food contamination, tainting of taste, leakage etc.
- Damage to decorative external print
- Annealing of Aluminum substrate (>220°C / 428°F), which can weaken the can
- Discoloration of print inks (whites to yellow and reds to brown)

Process Improvement:

- Optimize operating characteristics to maximize productivity (line speed) and fuel economy.
- Use the Process Optimization tool to theoretically predict the effect of profile data changes on overall profile performance using the Datapaq Value analysis. Perform educated process optimization. Take the guess work out of process parameter selection and need for multiple trial and error parameter validation runs with the system.
- Create documentary proof of process control for use with customers or quality audits (ISO9000 etc.)
- Employ the contour plot tool to visually confirm the Wicket sheets temperature uniformity and identify heat migration patterns as the sheet travels through the oven.
- Identify regions of excessive turbulence, which may cause problems with sheet marking/ghosting.

원문: Fluke Process Instruments DataPaq® 특수 시스템 WicketPaq.PDF · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

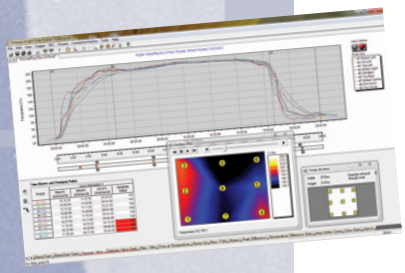
TECHNICAL SPECIFICATIONS

DQ1860 Q18 6 Channels

DQ1810 Q18 10 Channels

TB0045 & TB0054 Thermal Barriers

TB0046* Thermal Barrier



Q18 DATA LOGGER

Model:	DQ1860	DQ1810
Number of Channels:	6	10
Sample Interval:	0.05 seconds to 10 minutes	
Accuracy:	±0.5°C (±1°F)	
Resolution:	0.1°C (0.9°F)	
Maximum Internal Operating Temperature:	85°C (185°F)	
Temperature Range:	-200°C to 1370°C (-328°F to 2498°F)	
Memory:	18,000 readings per channel	
Data collection start:	Start/Stop buttons, time or temperature trigger	
Thermocouples:	Type K	
Battery:	NiMH rechargeable	
Battery Charging:	Full charge in less than 2 hours	
Battery Life:	60 hours (Sample interval of 5 seconds @ 25°C / 77°F)	

THERMAL BARRIERS

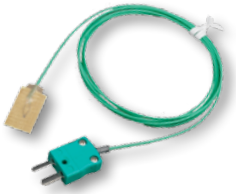
Barrier Model	TB0045	TB0046*	TB0054
Weight	1.5 kg (3.3 lb)	2.5 kg (5.5 lb)	1.9 kg (4.2 lb)
Dimensions (H x W x L)	48 x 185 x 233 mm (1.8 x 7.2 x 9.1 in)	70 x 172 x 240 mm (2.7 x 6.7 x 9.4 in)	48 x 185 x 275 mm (1.8 x 7.2 x 10.8 in)
Suitable Logger	DQ1860	DQ1860	DQ1810

Temperature	100°C (212°F)	150°C (302°F)	200°C (392°F)	250°C (482°F)	300°C (572°F)
TB0045 Duration (minutes)	80	45	35	30	–
TB0046* Duration (minutes)	120	60	45	35	25
TB0054 Duration (minutes)	80	45	35	30	–

Clip not provided as standard, but optional. Fitted with locking carry handle.

THERMOCOUPLES

Fast response PTFE coated thermocouple attaches to test sheet with high temperature adhesive tape. Capable of measuring 0°C to 265°C (32°F to 509°F)



PA0060	1.5 m (5 ft)
PA0061	1.0 m (3 ft)
PA0062	3.0 m (10 ft)

SOFTWARE FEATURES

Oven Tracker® Insight™ analysis software allows comprehensive data review, analysis and reporting and includes:

- Simple Wizard operation
- Datapaq Value, Reference and Tolerance Curves, SPC (Statistical Process Control), BakeChart analysis, Wicket sheet contour plot, Process Optimization Tool
- Analysis Alarms, plus much more
- Other local languages available (please contact Datapaq for details)

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