

# CoilPaq

*...the coil coating temperature profiling solution*

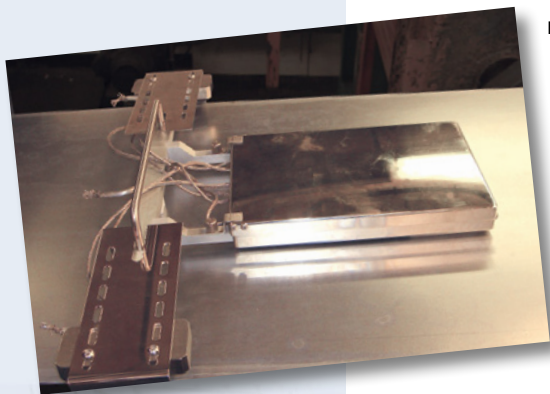
**The DataPaq® CoilPaq system is used in surface coating lines to monitor the temperature profile of the coil strip at various points across its width, as it is fed through the oven.**

The design of the CoilPaq allows you to place this instrument on the moving coil without stopping the line.

Precise temperature readings begin when the start button is pushed or user-determined time or temperature triggers are reached.

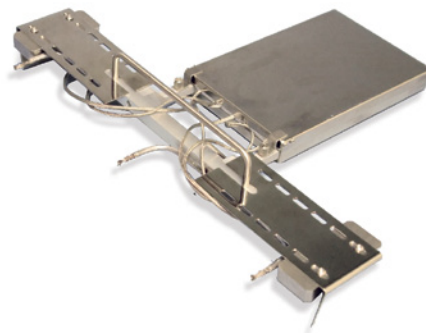
Readings are taken as frequently as every 0.05 seconds for the best possible resolution.

When the run is complete, the data is downloaded onto powerful Datapaq Insight™ software. Fast and accurate analysis of the curing cycle with full documentation is generated in seconds.



## SYSTEM FEATURES

- Six measurement points (3 air, 3 surface)
- Proven on coil coating lines running at over 183m (600ft) per minute
- Sampling intervals from 0.05 seconds to 10 minutes
- Data logger accuracy of  $\pm 0.5^{\circ}\text{C}$  ( $\pm 0.9^{\circ}\text{F}$ )
- Range of arm sizes to suit all coil widths
- Works on both aluminum and steel
- Starts automatically upon entering the oven (temperature trigger)
- Light and compact
- Easy grab handle
- Coil edge guide rails (optional)



## SYSTEM BENEFITS

- Monitors the product coating cure and checks that it is to the manufacturer's specification
- Confirms uniform temperature across the entire width of the coil strip
- Find and prevent problems due to improper coil temperatures; thus minimizing rejects and production downtime
- Surface and air thermocouples are positioned in the center and sides of the coil to measure uniformity across the strip
- Allows fast set-up after line maintenance, breakdown or coil/coating change
- No need to stop or slow the line; the CoilPaq is placed on the moving coil
- Complete documentation is automatically generated for ISO9000

# TECHNICAL SPECIFICATIONS



## Q18 DATA LOGGER

<b>Model:</b>	DQ1860
<b>No. of Channels:</b>	6
<b>Sampling Interval:</b>	0.05 seconds to 10 minutes
<b>Accuracy:</b>	±0.5°C (±0.9°F)
<b>Resolution:</b>	0.1°C (0.1°F)
<b>Maximum internal operating temperature:</b>	85°C (185°F)
<b>Temperature Range:</b>	-200 to 1370°C (-328 to 2498°F)
<b>Memory:</b>	18,000 data points per channel
<b>Data collection start:</b>	Start/stop buttons, time or temperature trigger
<b>Battery:</b>	NiMH rechargeable
<b>Battery Charging:</b>	Full charge in less than 2 hours
<b>Battery Life:</b>	60 hours—Sample interval of 5 seconds at 25°C (77°F)

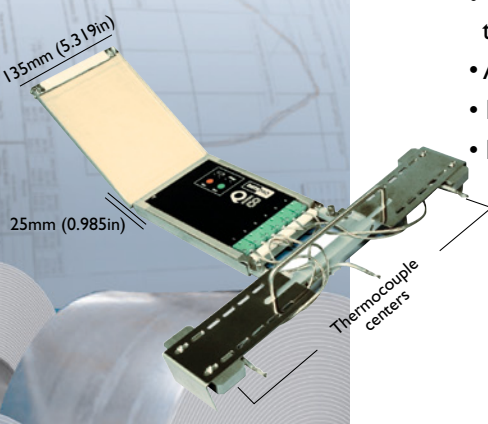
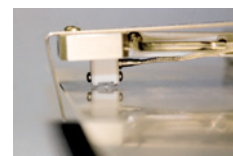
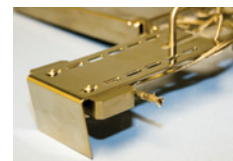
## SOFTWARE FEATURES

Datapaq Insight software is a powerful software package that quickly converts raw data into meaningful information. Complete documentation is generated in seconds with a detailed analysis of the curing cycle.

- Wizard driven for ease-of-use
- DatapaqValue, Reference and Tolerance Curves, SPC, and Bakechart analysis
- Time at Temp/Peak Temp shows time spent above pre-determined temperature thresholds and the maximum temperature reached
- Analysis alarms for when the process is out of tolerance
- Import and export data into spreadsheets for further analysis
- Notification for logger recalibration

## THERMAL BARRIER CL006 I

- Thermal duration: 10 minutes at 200°C (400°F), 8.5 minutes at 300°C (575°F)
  - Weight of system including standard arms = 1.8kg (4lbs)
  - Overall width with standard arms = 967mm (38.1 inch)
- see below for details on other arms sizes



SPAN		ARM ASSEMBLY PART NUMBER		THERMOCOUPLE PART NUMBER	
Overall Width	Thermocouple Centers	Left	Right	Air	Surface
621mm (24.4in)	572mm (22.5in)	PA0402	PA0403	PA0431	PA0441
775mm (30.5in)	726mm (28.6in)	PA0406	PA0407	PA0321	PA0326
967mm (38.1in)	918mm (31.6in)	PA0400	PA0401	PA0430	PA0440
1137mm (44.8in)	1088mm (42.8in)	PA0408	PA0409	PA0433	PA0443
1221mm (48.1in)	1172mm (46.1in)	PA0404	PA0405	PA0432	PA0442
1391mm (54.8in)	1342mm (52.8in)	PA0410	PA0411	PA0434	PA0444

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