Compact Profiling Systems
For PTFE Coating Applications

PhoenixTM Thermal Profiling Systems are built for specific applications within a broad range of industrial processes, and care has to be taken in the design of the system to ensure all the requirements of the process are met. The paint finishing industry, for example, requires the protective thermal barrier to be free of all traces of silicone. In the heat treatment industry profiling systems must be designed to operate in harsh furnace environments and to resist high rates of heating and cooling with minimum distortion.

All industrial processes requiring thermal profiling call for critical knowledge of both the process itself and how conditions within it can affect the performance of the profiling system components. PhoenixTM personnel have worked with these industries for many years and their experience is translated into the superior design of their thermal profiling systems for all industrial applications.

Compact PTFE Curing System

Designed for PTFE / Teflon coating applications, the PhoenixTM Compact Finishing System measures the exact temperature of your product as it passes through the process. The thermal barrier that protects the data logger will withstand temperatures of up to 500°C in the curing oven.

The Compact PTFE Curing System combines the TS01-090-1 thermal barrier, the PTM1-006 Compact data logger, and PhoenixTM Thermal View software, together with a range of high temperature PhoenixTM thermocouples to give a robust, accurate, and competitively priced system.
System Components:

- Accurate and robust 6 channel data logger powered by ‘off the shelf AA’ alkaline batteries
- Compact high temperature stainless steel thermal barrier, constructed with micro porous insulation and high temperature fibre seals
- Full analysis software package
- High temperature glass fibre thermocouples with stainless steel over-braid for maximum wear resistance

**DATA LOGGER**
- Model Number: PTM1-006 Compact
- No. of channels: 6
- Thermocouple types: K
- Measuring range: 0 to 500°C
- Accuracy: ±0.3°C
- Resolution: 0.1°C
- Memory total: 200,000 data points NVM
- Max. operating temp: +70°C
- Sampling interval: Adjustable 0.5s to 1 hour
- Length: 200 mm
- Width: 70 mm
- Height: 20 mm
- Weight: 400 gm

**THERMAL BARRIER**
- Model Number: TS01-090-1
- Suitable Data Logger: PTM1-006 Compact
- Suitable Heat Sink: N/A
- Thermal Duration at:
  - 250°C: 33 minutes
  - 300°C: 27 minutes
  - 350°C: 24 minutes
  - 400°C: 22 minutes
  - 450°C: 21 minutes
- Height: 90 mm
- Width: 157 mm (over catches)
- Length: 320 mm
- Weight: 5.0 Kg

**THERMOCOUPLES**
Exposed Junction Thermocouple. Type K. Glass fibre insulation with stainless steel braid. 2m long. Operating temperature up to 500°C. To specification ANSI MC96.1 special limits.

**SOFTWARE**
Thermal View: SW05-ENG. Full analysis package with time above specified temperature, minimum and maximum temperature calculation and scrollable data viewing throughout the file.

Note: As products are continually improved, specifications may be changed without prior notice.