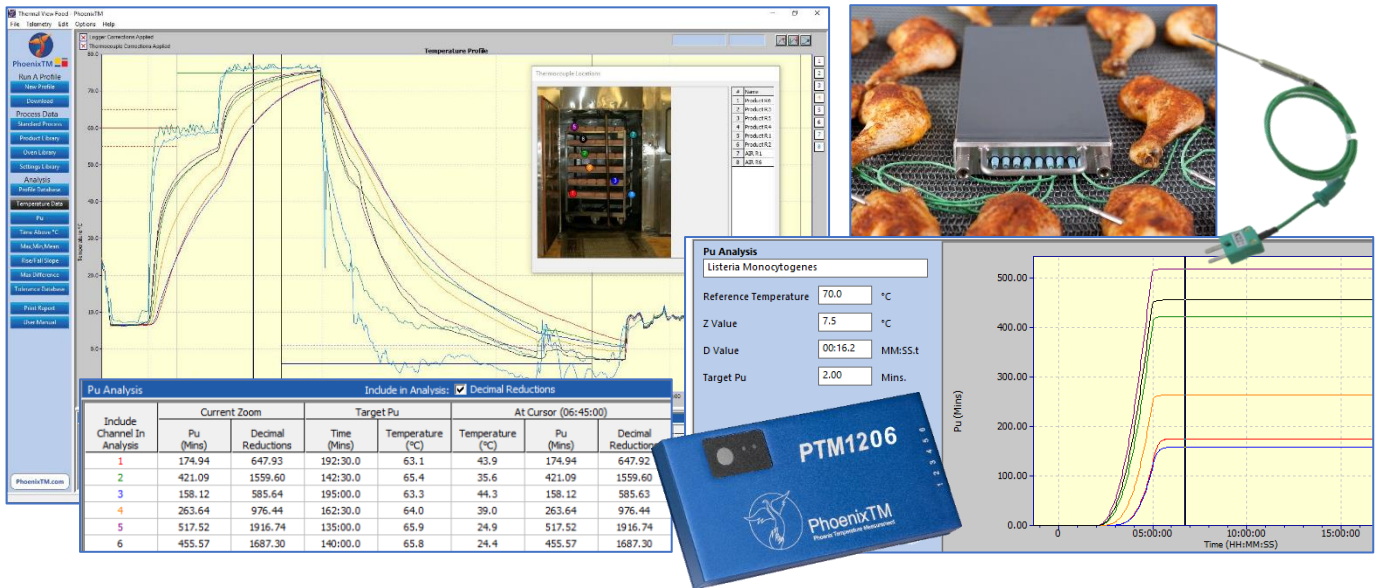




PhoenixTM
Phoenix Temperature Measurement

Where experience counts!!

Thermal View and Thermal View Food Analysis Software



PhoenixTM 'Thermal View Food' is a powerful, comprehensive yet easy-to-use software package designed specifically for the PhoenixTM 'Thru-process' Temperature Profiling systems used in the Food Processing Industry. The software has been developed to allow not only control of the data logger but also to provide a detailed review, analysis and reporting of the thermal cook & chill profile. Features supplied in the software program have been developed to allow the user to accurately determine that the food product being processed has achieved the correct cook/chill or freeze temperature. The software takes raw temperature data and converts it to useful information that allows understanding, control, optimisation and validation of the food cook process. The software allows quick confident cook validation as part of your HACCP protocol making the validation process both efficient and accurate. Information provided from the profile analysis allows not only control of the cook process to ensure food safety but can also potentially improve food quality (taste, texture and colour) yield, productivity and energy efficiency.

The key fundamentals of the software design are:

- **Simplicity:** Screen layout is clear, concise, and intuitive making the software user friendly, uncluttered and easy to use without compromise to the analysis detail available.
- **Accuracy:** Thermal View Food software is provided with a sophisticated analysis suite including industry recognised and approved lethality calculations allowing quantification of food cook safety. For a specific target micro-organism, the software will calculate F_0/P_u and or number of log/decimal reductions achieved by the cook profile to quickly determine whether the Cook Critical Control Point (CCP) has been achieved. The lethality results can be viewed either numerically or graphically over full zoom, process zoom, custom zoom™ and even at a designated specific cursor position on the profile trace.

When data is downloaded from the logger, the results are automatically saved in a database which can be organised in a logical manner for easy access to historical process data. Process templates can be constructed for each profile run. With a simple click, all saved oven settings (zones and set-points), product information (probe locations on product image) and fixed cook analysis settings (time @ temperature or lethality F_0/P_u) can be attached to the profile. To complement the profile data the user can add additional notes either on the profile pointing out profile features of interest or in the notes section. Customised report options allow the user to select the optimal format to present profile findings which can be printed directly or saved as a PDF which can be shared efficiently (via e-mail) to any interested parties. All the reporting power you need to complete your HACCP validation with the detail and efficiency needed.



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Key Screens & Functions

Feature List comparing basic Thermal View Software (TV) & Thermal View Food Software (TV Food)

Feature	TV	TV Food	Benefit
Full Logger Programming Options	●	●	Set up data logger to meet conditions of profile run (Probes, Sample Interval, Start mode etc)
Temperature Data	●	●	Scroll across the profile and view data by each reading
Time Above Temperature	●	●	Calculate Time @ Temperature for target core cook temperature
Max, Min, Mean Temperature	●	●	Measure Max, Min Mean temperature by oven zone or custom zone
Rise & Fall Slope	●	●	Confirm cook rates and that food is chilled to safe temperatures quickly
Maximum Difference		●	Prove temperature uniformity in oven (Shelf/Rack or Mesh Belt Position)
Tolerance Curve		●	Instantly check that the profile shape is constant against ideal shape
Reference Profile	●	●	Compare historic data to see how the process has changed over time
On Screen Notes	●	●	Describe what the profile is showing directly on the graph
Lethality Calculations Fo /Pu Data Table		●	Calculate Lethality Fo/Pu values (Sum) for any part of the profile
Lethality Calculations Fo/Pu Graph View		●	See how lethality values change graphically against profile trace
Zooming Options (Full, Profile, Custom)	●	●	Select the area of the profile you wish to focus on
Database Management Tool	●	●	Set-up unique databases to archive profile runs by process or product
Merge Profile Data		●	Combine two profiles from two systems to a single profile report
Profile Splitting		●	Isolate process events (cook & chill) for focused review and analysis
Process Template Files		●	Create template files to describe the parameters for all your different processes. Use to make routine profiling quick and efficient.
Product Library Files	●	●	Show exactly where probes are located on products for clarity
Product Library File & lethality Analysis		●	Store lethality calculation and other analysis parameters to remove need for repeated parameter input run after run.
Oven Library Files		●	Build a visual representation of the oven against which the profile is displayed. Identify location of cold spots in the actual oven.
Oven Settings Library Files		●	Compare profile to actual oven set-point temperatures in each zone
Auto Language Change Option	●	●	Change language in software to allow use by multi-cultural teams
On Screen Help	●	●	Help direct in the software where you need it
Logger on Board Calibration Cert	●	●	View and Print Logger Calibration Certificate direct from logger
Graph Display Options	●	●	View the profile graph in the format you prefer
Profile Zoom Axes Settings	●	●	Manually customize axes settings and set as default for routine use
Thermocouple Alignment Function	●	●	Correct for probe location differences so that time references are equal
Data Import and Export (CSV)	●	●	Share data between different systems (Profilers/Systems)
Password Security		●	Protect your files from tampering or accidental deletion
Import from PTM Mobile Format	●	●	Read data files collected on the PhoenixTM Mobile App
Print Report Options	●	●	Customise report format to exact needs (Graph, 1 page, Fo or Full Report)
Customer Report - Company Logo	●	●	Customise reports to include full company information including logo
Thermocouple and Logger Correction Factors		●	Apply both logger and thermocouple correction factors to maximise accuracy of the profile data.
USB Real Time Analysis	●	●	Analyse live real time data directly from the logger (Comms Cable)
RF & BT Real Time Analysis		●	Analyse live real time data directly from the logger (RF & Bluetooth)

Note: All Products are continually improved, specifications may be changed without prior notice. Ref: PhoenixTM_Datasheet_SW35_10.4_USA 20210506

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