



ECD M.O.L.E.® Thermal Profile - Excellence in Measurement Solutions Worldwide

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Thermal Profiling Solutions | Process Heating



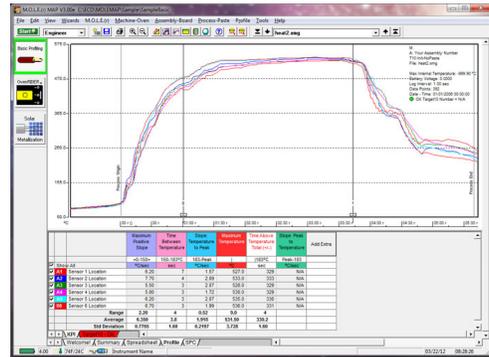
Time and Temperature...

Whether you're barbecuing a steak or casting high nickel turbine fan blades the amount of both in combination is crucial in achieving product perfection. Taking a recipe out of a data sheet or translating metallurgical charts and tables into furnace settings is one thing. However, to prove the staging of theoretical best-practices actually imparts the desired material properties requires direct measurement of the work piece.

This is where the ECD M.O.L.E.® excels, and [INDATA™ thermal profiling systems](#) travel with your parts through conveyerized ovens and furnaces, eliminating the need for long feed-and-retrieve sensor wires. [Consult your solution](#)

Traveling Time/Temperature Profiling and Analysis...

...is ECD's forte, and the kits built around the SuperM.O.L.E.® Gold 2 with our INDATA® line of thermal barriers and thermocouples create custom solutions for your time at temperature and space constraints. Kits also include M.O.L.E.® MAP software, which flexes with your workflow, providing customizable data extractions, Imports of your .MDM M.O.L.E.® libraries and compatibility with your intranet, Excel, and all ECD M.O.L.E.® profilers. M.O.L.E.® MAP is the Gold Standard for thermal profiling software.



[\(Click here to enlarge the image\)](#)

Six-channel Time/Temperature Profilers...

...are the most popular for process heating applications. When you need more data points the MEGAM.O.L.E.® 20 is your choice for furnace surveys and other product quality assurance needs, including new product development.

With only one M.O.L.E.®, you can obtain graphs in M.O.L.E.® MAP software with 20 profile channels, and get the data in real time as well! Meanwhile, our three channel model, the V-M.O.L.E.® accepts 3 Mini thermocouples in a size ideal for batch and flat bed curing processes, powder coat curing and photovoltaic metallization and lamination quality assurance.



Define your Application, Consult a Solution

Select your process heating application: 

Process Time: 

Number of points to be measured: 

Define heating process: 

Please spend a moment...

...to consider the nature of your thermal process and its physical constraints then click the "Consult Your Solution" button to continue the conversation with our technical sales staff via email and/or phone at your convenience.

Thank You.

Industry and Application

Measurement and Control of the Time/Temperature process to the yield, quality and throughput of most every manufacturer or producer of sold goods. Innovation through R&D also relies heavily upon thermal process data analysis to optimize a company's reputation as well as profitability. Manufacturing is alive and well! These are examples of such industries where ECD's thermal profiling customers reside:

- | | | | |
|--|-----------------------------------|--------------------------------|-------------------------------------|
| Aluminum Fabrication | Glass Manufacture | Plastics & Rotomoulding | Vehicle Battery Manufacture |
| Automotive | Gold Clubs and Sports Equipment | Powder Coating | Vertically Integrated Manufacturing |
| Baking & Food Processing | Hand Tools | Powder Metallurgy | Windows & Doors |
| Carpet & Textiles | MDF Cabinetry | Smart Grid | |
| Electronics & Semiconductor | Medical | Solar PV Manufacture | |
| Ferrous Heat Treating | Military/Aerospace | Tractors & Lawn Mowers | |

Please [contact us](#) on how we can help you in any of these applications.

INDATA™ Process Heat Treating Solutions

INDATA™ - Facilitates á la carte building of a [SuperM.O.L.E. Gold 2 System](#) for your process heating profiling solution. Choose a **Thermal Profiler**, **Thermal Barriers** and **Thermocouples** that combined, create a complete kit customized for your application.

- INDATA™ Thermal Barriers employ active phase-change heatsinks for protection without bulk
- INDATA™ thermocouples add to the ECD range with inconel sheath, and magnetic & clamp-on styles
- Choose INDATA™ RF for wireless real-time process profile monitoring
- Choose [MEGAM.O.L.E.®](#) and [MEGAM.O.L.E.® RF](#) up to 20-channel profiling capability for detailed furnace surveying and profiling complex parts



Note: The CureTRAK® Product Quality Optimization System is a discontinued product. We continue to support our Powder Coaters in the field with Databox Calibrations, probes & accessories, software and documentation. Please contact us for INDATA™ cure profiling solutions.

RESOURCES

- [How to achieve Process Improvements through thermal Profiling](#)
- [FREE "Guide To Product Cure Optimization"](#)
- [Technical Article - Critical Powder Cure Cycle Issues](#)
- [Friends and Associations](#)

HOW WE CAN HELP YOU

ECD is recognized worldwide for its leadership and expertise in thermal monitoring and analysis technology. Based in Milwaukie, Oregon, the company is a pioneer in the design, development, and manufacturing of advanced thermal profiling systems and software used to monitor and analyze process temperatures in various industries including electronics, solar, and baking, among

NEWS

- [Upcoming Tradeshow: Nepcon Shenzhen](#)
Venue: Shenzhen Convention & Exhibition Center
Date: August 26-26, 2014
- [ECD Celebrates 50 Years of Innovation During Recent Anniversary Event](#)

RECENT VIDEO

others.

Last week, local Milwaukee-based technology firm, ECD...

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