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PRESS RELEASE

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THERMALTRACE BATCH-BASED WIRELESS TEMPERATURE MONITORING SYSTEM

Predictive system software reduces the need for re-cooking

ThermalTrace by Exceltec is a temperature monitoring system designed for the food industry. It is a batch-based wireless data acquisition system that monitors recipes from oven to blast. It allows operators to follow the recipe's temperature at any time throughout the entire cooking cycle.

ThermalTrace monitors cooking recipes in real time. Its unique software not only monitors the entire process, but, unlike similar products, it also predicts cooking completion and warns operators if the cooking cycle won't be finished on time, reducing the need to re-cook the batch. Once the cooking cycle is completed, the system produces a complete report that includes a graph, readings, customer information and alarms. ThermalTrace Web-based software allows operators to view data from any device (phone, laptop, tablet, etc.).

ThermalTrace hardware includes wireless data loggers connected to a temperature probe and hooked to meat racks. The loggers communicate with an industrial encased LoRaWAN receiver throughout the process. LoRaWAN signal enables the information to travel further than WI-FI, and it is also capable of going through steel doors, which is a great advantage in a factory setup. The loggers are rated IP67; meaning they are splash resistant.

The ThermalTrace system helps improve quality control of a batch by monitoring the temperature of the product in real time, and by predicting the completion time for the entire cooking cycle.

ThermalTrace generates all reports automatically upon completion of the recipe, showing all the data and alerts for the batch. If the system predicts the recipe won't be ready on planned time, it will send alarms to the operator in real time via email and text messages. ThermalTrace real-time recipe monitoring and alarms let you correct and readjust the temperature to prevent re-cooking saving both time and money.

Exceltec will be at the IPPE Trade Show in Atlanta, demonstrating ThermalTrace, Magna-Plus and Sentron Glass-free pH probe, January 28-30 2025, Booth C37192.

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<https://thermaltrace.net>

About Exceltec

Since 1996, Exceltec offers its expertise in instrumentation and automation products to provide solutions in process control for the manufacturing industries.

Our mission is to provide the best process control, automation and data acquisition solutions for the manufacturing industry in North and South America, improving productivity and reducing operating costs.

We operate mainly in North America, with offices in Canada, United States and Mexico.

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