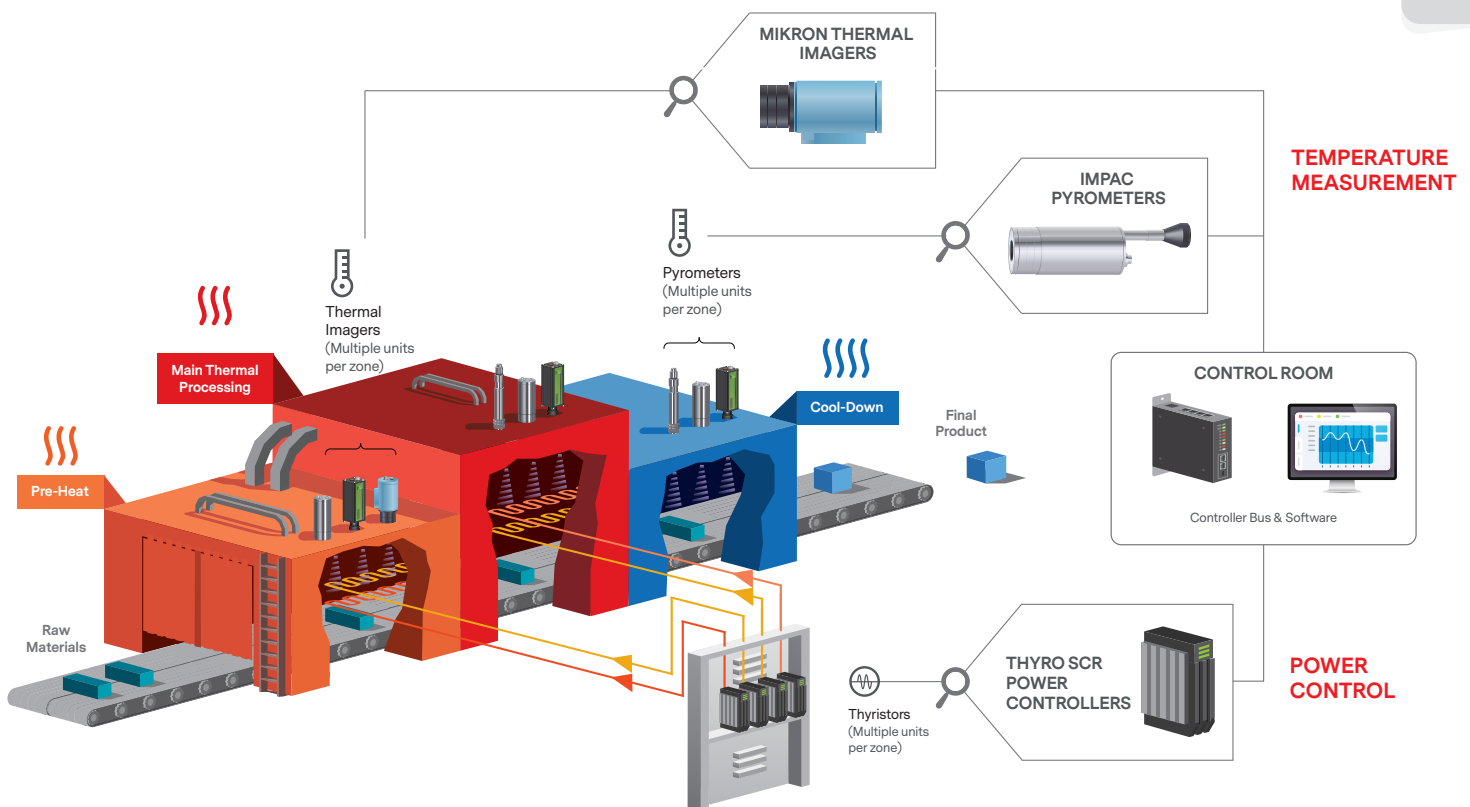# TEMPERATURE AND POWER SOLUTIONS FOR FURNACE APPLICATIONS

Advanced Energy®

Our advanced temperature sensors and power controllers ensure your furnaces operate at optimal temperatures with unmatched precision, delivering peak quality and consistency in every batch.

BENEFITS:

- Enhanced equipment longevity
- Reduced maintenance
- Improved energy efficiency
- Boost product quality and yield
- Mitigate environmental impact

MIKRON THERMAL IMAGERS

IMPAC PYROMETERS

TEMPERATURE MEASUREMENT

Thermal Imagers (Multiple units per zone)

Pyrometers (Multiple units per zone)

Main Thermal Processing

Pre-Heat

Cool-Down

Final Product

Raw Materials

CONTROL ROOM

Controller Bus & Software

THYRO SCR POWER CONTROLLERS

POWER CONTROL
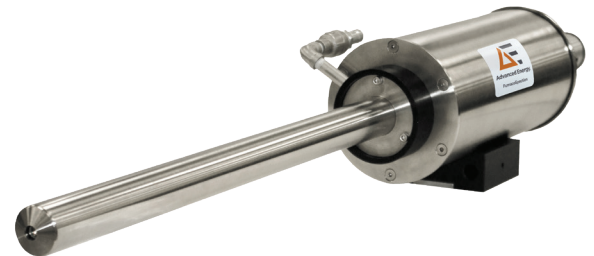
Thyristors (Multiple units per zone)

Improve process efficiency and product quality for furnace operators and OEM partners

Maximize enterprise efficiency and profitability by leveraging temperature data to predict failures and automatically adjust power usage. These actionable insights empower manufacturers to better understand their heating elements, resistance change, and lead loss, resulting in longer equipment uptime through predictive maintenance.

Pyrometers

Highly accurate and repeatable single-point temperature monitoring both inside and outside of the furnace — With a huge pyrometer product portfolio developed from years of research and customer contact, Advanced Energy provides solutions for nearly every application request.
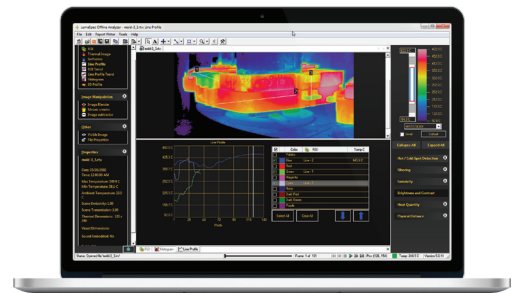

Thermal Imagers

Real-time monitoring inside high-temperature furnaces through natural gas flames — AE's thermal imagers enable monitoring of liquid glass, refractory walls inside the melt furnace, or cube temperature inside reformers. Power LumaSpection™ software helps operators monitor and control process temperature, including outputs to automation and DCS plant network.

SCR Power Controllers

Modular solutions for providing power to the heating elements within furnaces at up to 99.5% efficiency and full control of critical parameters.

Software

Complete visualizing, recording, and archiving of process temperatures.