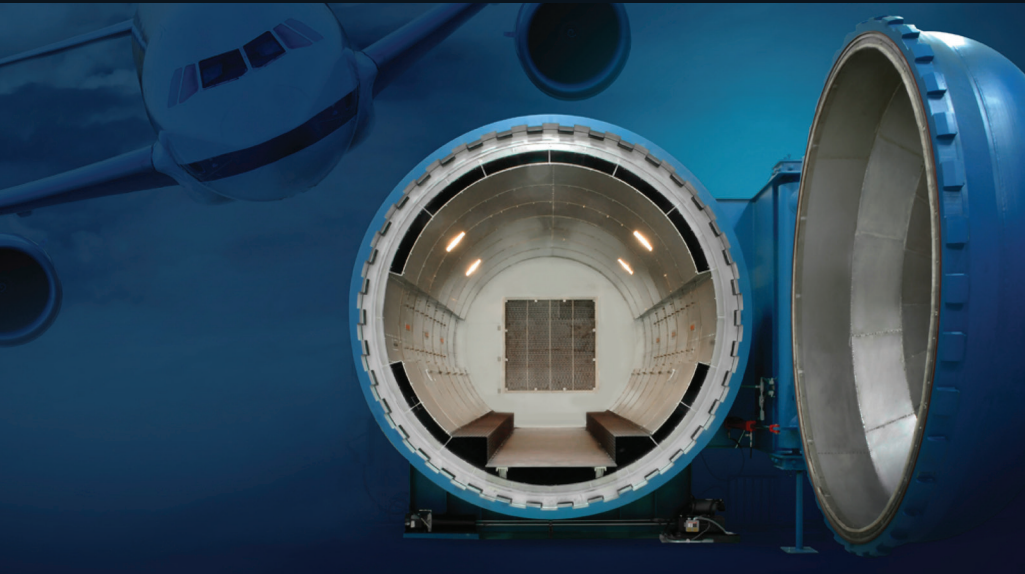




Smart Thermocouple Series

THERMOCOUPLE SYSTEM FOR COMPOSITES CURING APPLICATIONS



Benefits

- Improve part quality & quality control while reducing the risk of misusing thermocouples
- Avoid production delays due to missing thermocouples
- Optimize thermocouples refurbishment & retirement
- Improved factory floor visibility
- Digital duty-cycle traceability and audit readiness
- Straight forward scale up to track raw material, WIP, finished parts and tools

OVERVIEW

TE Wire & Cable and Plataine are joining forces to offer the industry an RFID-enabled innovative Smart Thermocouples Solution allowing manufacturers to track their thermocouples while extracting additional value of it. The joint solution practices Industry 4.0 technologies, integrating IoT, AI and thermocouple sensors, to dramatically advance manufacturing efficiencies and quality.



Track location and duty cycles

Thermocouples' location, status and duty-cycles are monitored to optimize thermocouple calibration, refurbishment or replacement



Improve efficiency and quality

Optimize thermocouples refurbishment & retirement, improve quality of parts while reducing the risk of overusing thermocouples



Run analytics and get insights

Thermocouple users can view analytics, receive real-time actionable alerts, insights and optimized recommendations



Complete traceability

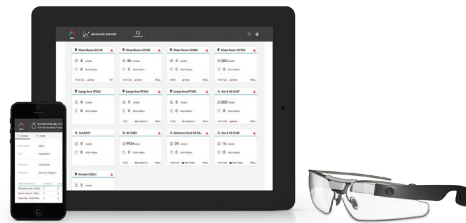
Accurate logging of all operations enabling full traceability and audit readiness.

Key Features

- Track real-time thermocouples movement on the production floor
- Monitor thermocouples autoclave duty-cycles
- Digital presentation of thermocouples log
- Triggered notification and A/V alerts when thermocouples require calibration, refurbishment or replacement
- Maintain a Digital Thread with part genealogy, and all manufacturing activities



Cloud



Smart Thermocouples



Mobile technology replaces paper, enabling real-time reporting, collaboration and actions for automated optimized traceability of thermocouples

Key Features

TRACK REAL-TIME THERMOCOUPLES MOVEMENT ON THE PRODUCTION FLOOR ON ANY SCREEN

Track the location of thermocouples as they move throughout the manufacturing process thanks to barcode scans or RFID and other shop floor sensors, to collect real-time, context-aware information of thermocouples location and condition.

MONITOR THERMOCOUPLES AUTOCLAVE DUTY-CYCLES

Providing automated real-time alerts & recommendations to optimize thermocouple calibration, refurbishment or replacement and improve quality compliance by eliminating the risk of misusing thermocouples. A dedicated web page allows users to plan ahead for efficient thermocouple utilization.

FULL DIGITAL PRESENTATION OF THERMOCOUPLES' TRACEABILITY WITH ALERTS

View digital traceability of thermocouples log and history, reducing risk of overusing thermocouples and providing audit readiness. Automatic proactive A/V alerts when thermocouples reach a threshold, allowing staff to keep on their work until notified of a threshold.

MAINTAIN A DIGITAL THREAD

Digital thread pairing genealogy of thermocouples to molds and parts

TRACK RAW MATERIAL, WIP, FINISHED PARTS AND TOOLS

Option to scale up to tracking additional high-value mobile assets such as raw material, WIP, finished parts and tools, throughout the enterprise with real-time visibility to location, condition, status and availability changes, creating an automated log of each asset's usage and maintenance data.

EASY DEPLOYMENT

Quick deployment and integration with any existing systems to ensure the continuity of information flow, avoiding the need to re-enter data and without any disruption to regular production.



107 North Fifth Street
Saddle Brook, NJ 07663
Toll-free: 1-888-984-8864
sales@TEWire.com
www.TEWire.com



465 Waverley Oaks Rd.
Waltham, MA 02452
Toll-free: 1-866-717-0270
info@Plataine.com
www.Plataine.com

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