Smart Thermocouple Series
THERMOCOUPLE SYSTEM FOR COMPOSITES CURING APPLICATIONS

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.

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

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

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.

The most trusted name in thermocouple wire since 1941
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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.