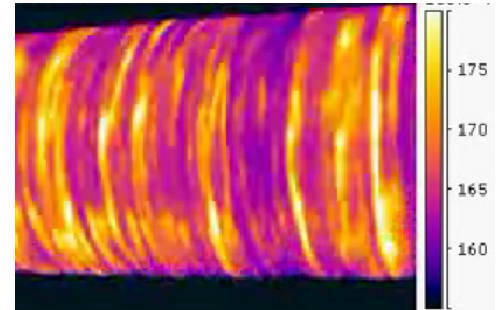


FIRE-SAFE MONITORS AND PREVENTS FIRE HAZARD IN PAPER INDUSTRY

Thermal Imaging Monitors & Protects Critical Paper Operations from Potential Fire Hazards



SOLUTION

- Multiple zones of fire monitoring with FLIR thermal sensors & cameras
- Operator console with HMI, PC -based industrial controller and Ethernet
- Display real time images
- Tags created to allow plant historian system to read temperatures and set limits
- System is simple and easy to view/monitor for operators
- Controls treat alarms in escalating

RESULTS

- Potential fires detected before they happen, resulting in zero damage to plant equipment
- Limits for alarming, machine shut down and fire suppression

PROJECT SUMMARY

At Pieper Automation, we pride ourselves in our unique ability to provide complete industrial automation/controls solutions & services for our customers, including on-site support, integration of machines/systems, new equipment design and machine upgrades. Along with our custom assembly machine manufacturing and panel building, we deliver you a seamless solution – from one supplier.

In the paper and board industry, management of risk arising from fire hazards is a critical part of mill operations and is why a large paper manufacturer turned to Pieper Automation to design a solution to prevent and detect fire before it happens.

Pieper Automation installed a fire prevention system for a client using FLIR cameras to monitor multiple machine areas with high fire risk. These areas included large heated paper rolls and bearing locations. The system continuously monitored temperatures up to 302°F at a rate of 9Hz.

A detailed functional specification for a full detection & fire suppression system was written and mutually agreed upon with the plant operations team. The solution included a Beckhoff Controller which in part collects and evaluates temperatures against user set limits. The user can set separate limits for alarming machine shut down and fire suppression in an escalating fashion with fire suppression as a last resort.

The operator stand has a stack light that annunciates both visual and audible alarms as set in the user interface. The PLC has a dedicated mill network connection and tags created to allow the plant historian system to read all current temperatures and operator set limits.

For more information on our Fire-Safe product solution, contact your local Pieper Automation salesperson.



WE ALWAYS FIND A WAY

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