HALT

HOPPER ASH LEVEL THERMOCOUPLE SYSTEM

The Hopper Ash Level Thermocouples (HALT) System is a preventative maintenance tool to continually monitor the levels of ash within any given instrumented hopper. The HALT system consists of a Stainless Steel enclosure that houses an industrial controller and a series of industrial grade thermocouple sensors installed at equal increments along the wall of each hopper. As the hopper plugs and the ash levels increase, the thermocouples will become insulated by the ash and their respective temperatures will decrease thus providing an indicator for the ash level within the hopper.

SYSTEM BENEFITS

- Pluggage Detection Tool
- Operator Safety
- Preventative Maintenance Feedback
- Improved Process Control
- Reduced Operating Costs

HALT STANDARD PACKAGE

- Stainless Steel Enclosure
- Industrial Controller
- 16-Channels IO Capacity
- 12 Weld Flange Thermocouples
- 2 Surface Mount Thermocouples
- HALT Software Package
- Installation Documentation

PLC COMMUNICATION

- OPC-DA
- OPC-UA
- ETHERNET/ IP

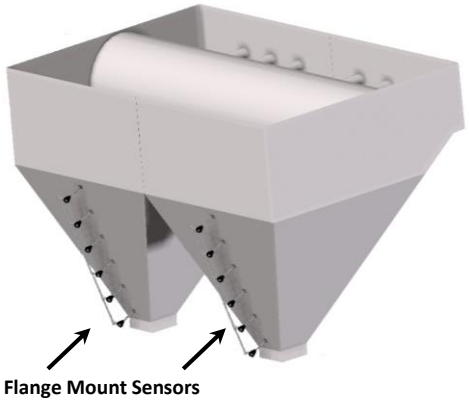

Figure 1. General System Installation

HALT Hardware & Sensor Features

- Stainless Steel NEMA4X Controller Enclosure
- Remote IO for ControlLogix
- Local Status Indicator Lights
- -20 to ~55C Operating Temperature
- Standard 16-Chan Type-K Thermocouple Capacity
- Typical Seven (7) Sensors per Hopper Duct
  - Six (6) Flange Weld Type-K Thermocouples
  - One (1) Surface Mount Type-K Thermocouple
- Reliable Stainless Steel Thermowell Construction
- Measurements up to 1260C

HALT Software Features

- Multiple Communication Options
- Real-time plotting and trending
- Triggers for Alarm Events
- Webpage User Interface Option
- Data Archiving
- OPC/PI Tag Configuration

Figure 2. Sensor Data Plots

Available Options & Support

- Thermocouple Extension Wire
- Additional IO Channel Capacity
- On-site Sensor/System Installation Support
- Spare Parts

For More Information and Pricing Contact:

Ryan Welker
Ryan.welker@unyah.com
513-248-8450

Integrated Test & Measurement
227 Water Street Suite 300
Milford, OH 45150

INTEGRATED TEST + MEASUREMENT

VISIT OUR WEBSITE
iTestSystem.com

…engineering measurement solutions