

# TEMPERATURE CONTROL SYSTEMS

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The goal is to give the audience an understanding of how the zinc temperature is maintained in a Galvanizing Furnace.

By showing diagrams and explaining the following:

- 1) The primary components
  - a. Temperature Sensors
  - b. Electronic Controller
  - c. Final Control Device
  
- 2) How the primary components achieve temperature control
  - a. How the components work together
  - b. Explanation of Proportional (gain), Integral (reset), Derivative (rate)
  - c. Adjustments of Proportional, Integral, Derivative
  
- 3) Maintenance concerns of the system
  - a. Thermocouple Replacement
  - b. Electronic Controller
  - c. Final Control Device