

Monitoring temperature in chillers

APPLICATION A155

Type of Company: [Manufacturer, Pharmaceuticals](#)

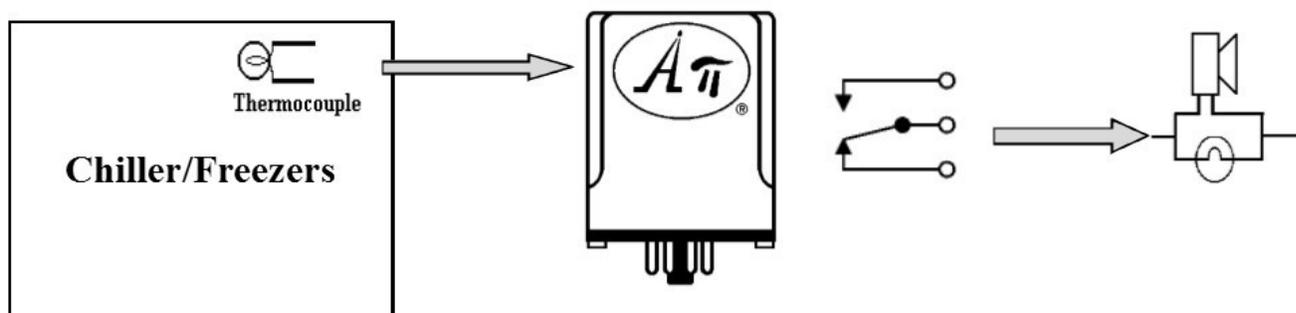
Location: [Illinois](#)

Process control enables mass production of consistent products from continuously operated processes while preventative maintenance monitoring is a way of improving overall equipment reliability and reducing defects in manufactured product. In today's manufacturing process, preventative maintenance monitoring systems and process control systems are both used to reduce labor costs and improve the quality of the final product.



The Engineering Issue

- The plant's engineers have two requirements:
 - Control the temperature for the chillers and freezers in an Emerson Process Delta V process control and building automation management system.
 - Monitor the temperature for the chillers and freezers for the HVAC preventative maintenance system.
- They cannot input the non-validated HVAC sensor into the validated process control PLC.



The engineer used an API 1220 G. The API 1220 G accepted the non-validated HVAC thermocouple input and has two independent relay outputs to indicate temperature deviations.

Problem. Solved.