

API-Cecom Group *n'fo*

Technical & Application Note A143

Application: Split signals for separate monitoring and control

Type of Company: Pharmaceutical Manufacturer

Location: Illinois

Problem: The company is using the Emerson Process (formerly Fisher/Rosemount) Delta V automation management system to control the plant manufacturing system. The HVAC engineers want to separately monitor differential pressure, relative humidity and temperature in the clean rooms but the Delta V system also needs to monitor these signals to maintain product compliance and archive FDA validation. The company cannot add another set of sensors.

Solution: API furnished the customer an APD 4393. The APD 4393 accepts the 4-20 mA signal from each sensor and provides two optically isolated outputs that are linearly related to the inputs. The input signal is filtered, amplified, split, and then passed through an opto-coupler to the output stage. The two isolated output channels provide an economical solution where more than one output device needs to be connected to the same input signal.

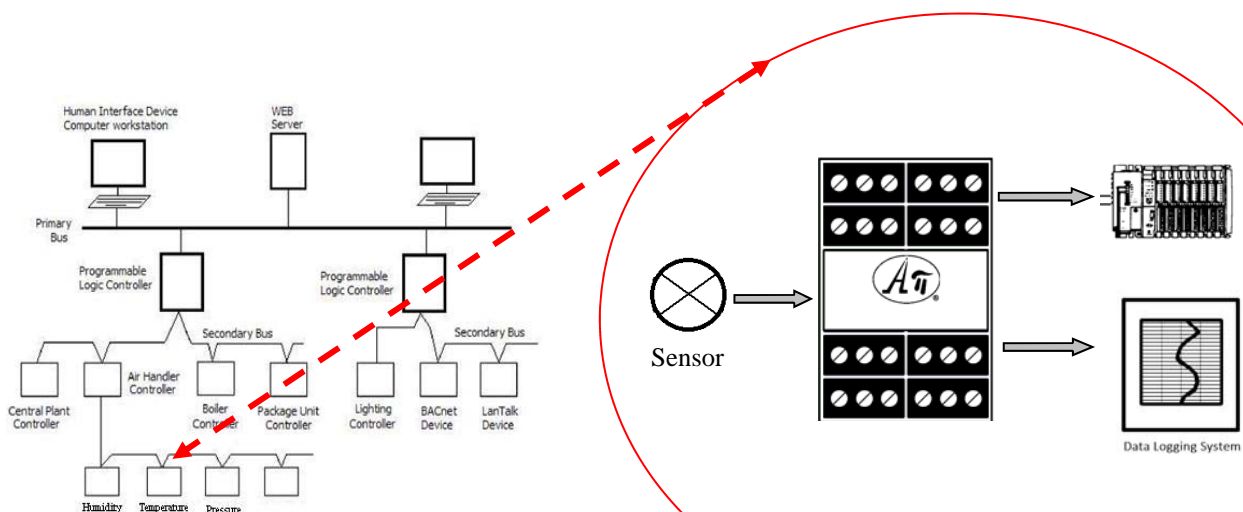



APD 4393

DC to DC Signal Splitter



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