

API-Cecom Group *n'fo*

Technical & Application Notes

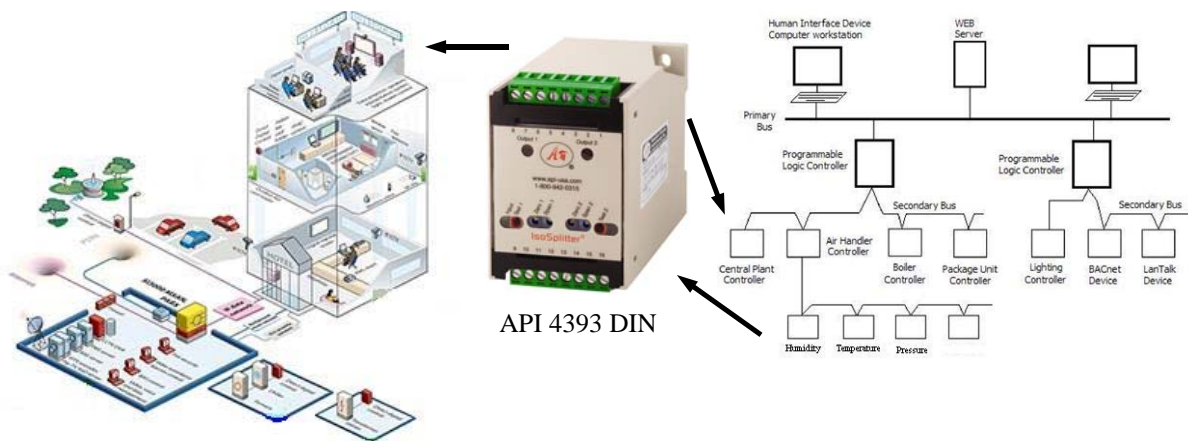
Application: Split signals for separate monitoring and control

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 API 4393 DIN. The API 4393 DIN 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.



Benefits of API's solution:

- Lower cost
- Satisfies customer without system modifications
- Lifetime warranty

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