

API-Cecom Group *n'fo*

Technical & Application Note A184

Application: Monitoring pressure transducer
 Type Of company: Consulting Engineer
 Location: North Carolina

Problem: The customer is a consulting engineering firm that provides engineering and technical services specializing in the extrusion industry. The system they are installing/updating manufactures polymer monofilament guitar strings for musical instruments. These processed monofilament strings are round and even throughout their length which avoids the disadvantage of tuning sensitivity from humidity changes and gives them greater strength. The system has an installed Dynisco pressure transducer and they need an interface device for the upgrade to a Siemens PLC. The engineer wants this interface device to supply the required excitation, be field range-able, be easy to calibrate and can be changed from sink to source if required.

Solution: The customer used an APD 4059. The APD 4059 supplies the excitation voltage for the pressure transducer and allow the engineer to not only change the range but gives him offset capabilities. The APD 4059 can be changed from a sinking output to a sourcing output by changing the output wire hookup positions plus the unit gives them optical isolation.

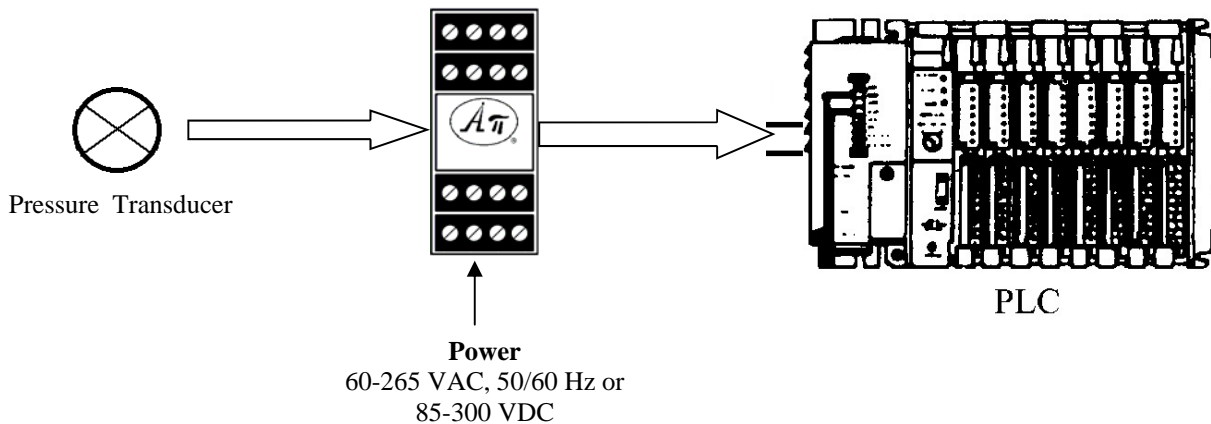


APD 4059

Strain Gauge to DC Transmitter



Photo by Cjp24



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