

# API-Cecom Group *n'fo*

## Technical & Application Note A179

Application: Monitoring wind speed  
 Type Of company: Manufacturer  
 Location: Massachusetts

**Problem:** The customer is a manufacturer of self-powered anemometers for use on cranes, wind turbines and outdoor staging structures. Wind speed must be monitored on these large structures due to equipment and personnel safety risks associated with strong winds. The effects of wind on these structures has the potential to affect the stability and/or structural integrity of the crane/turbine which may lead to material falling or people being knocked over, perhaps from a height. The anemometer outputs a signal that their customer inputs to a PLC so that crane/turbine control is restricted during sustained strong winds. The customer requires that the anemometer signal be isolated and converted before being sent to the PLC.

**Solution:** The customer used an APD 4380 to convert the anemometer output to a 4-20 mA signal for the PLC. The APD 4380 converts and isolates the signal plus the output can be "sinking" or "sourcing" to interface with the customers PLC.

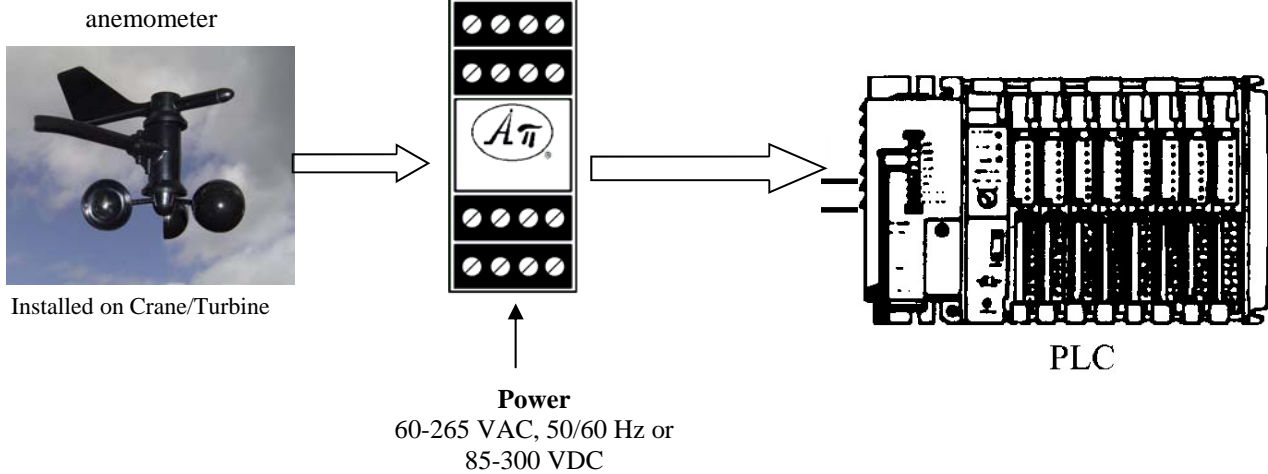


APD 4380

DC to DC Transmitter



Photo by Elvert Barnes



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