

API-Cecom Group *n'fo*

Technical & Application Note A107

Application: Controlling SCR's for supplemental heat

Type of Company: Building Maintenance Management

Location: Illinois

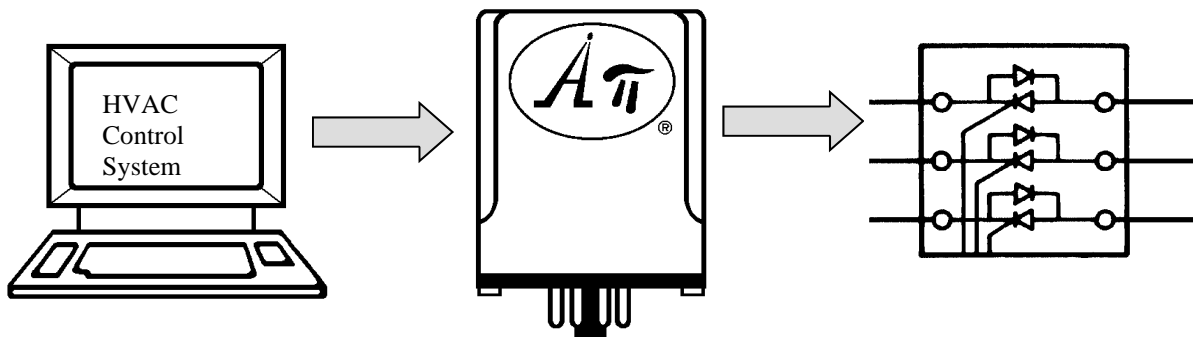
Problem: The company is using a Barber Colman HVAC system to control heat to the building. Due to equipment changes the company had to install several Robicon SCR's for supplemental heat to the building. The Barber Colman HVAC systems only outputs a signal of 6-9 VDC but the Robicon SCR's require an input of 0-10 VDC for proper operation. The HVAC engineers also have a requirement for an override switch for troubleshooting as well as emergency control of the SCR's. The interface system must not be overly expensive, must have excellent accuracy but must not be complex.

Solution: API furnished the customer an specially ranged API 4300 G. The API 4300 G accepts a 6-9 VDC input from the control system and outputs a 0-10 VDC signal for the SCR's. As an added feature on the API 4300 G the functional test pushbutton switch was replaced with a toggle switch. When the functional test toggle switch is in the manual position the unit will output a 5VDC signal independent of the input signal which the customer can vary for troubleshooting or manual control.



[API 4300 G](#)

DC to DC Isolated Transmitter



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