

Monitoring voltage on SCR motor drives

APPLICATION A102

Type of Company: [Manufacturer, Oil Drilling Rigs](#)

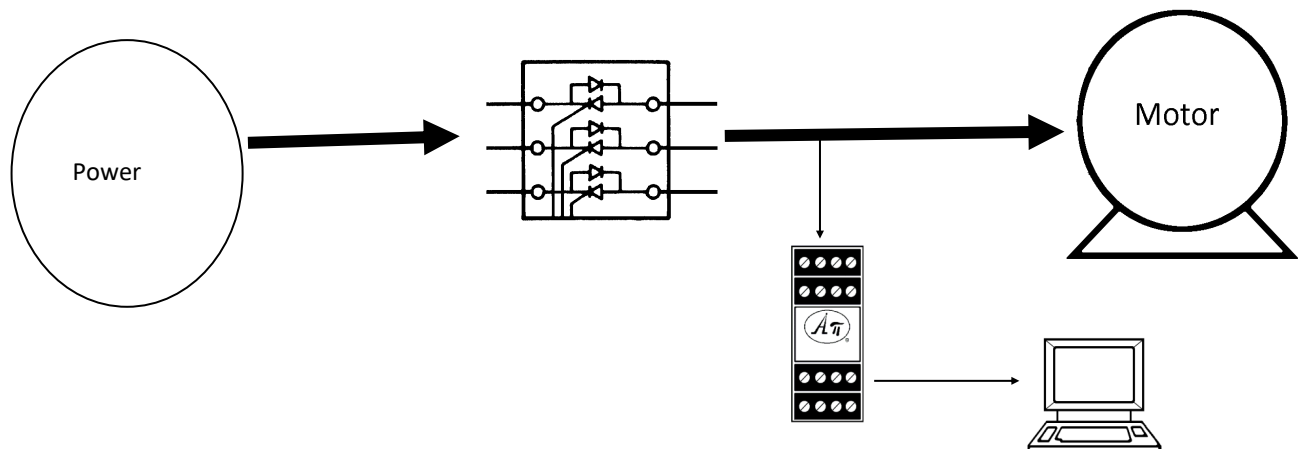
Location: [Texas](#)

Many oil drilling rigs utilize SCR drives because the application requires smooth, stepless speed control with reverse and braking capabilities. SCR drives are becoming the standard for DC motor drives because they are efficient, cost effective and built to last.



The Engineering Issue

- The engineer has a requirement to monitor the high voltage DC on the SCR drive
- The power usage and efficiency of the drive must be integrated into the control and power monitoring system.



The engineer used an APD HV-DC to monitor the 1000VDC on the SCR drive. The APD HV-DC also provides isolation for the analog input card to the PLC as well as the ability for sinking/sourcing for the 4-20 mA output signal for either single-ended or differential inputs.

Problem. Solved.