

Monitor engine RPM to control engine torque

APPLICATION A141

Type of Company: Motor Manufacturer, Engineering Solutions Div.

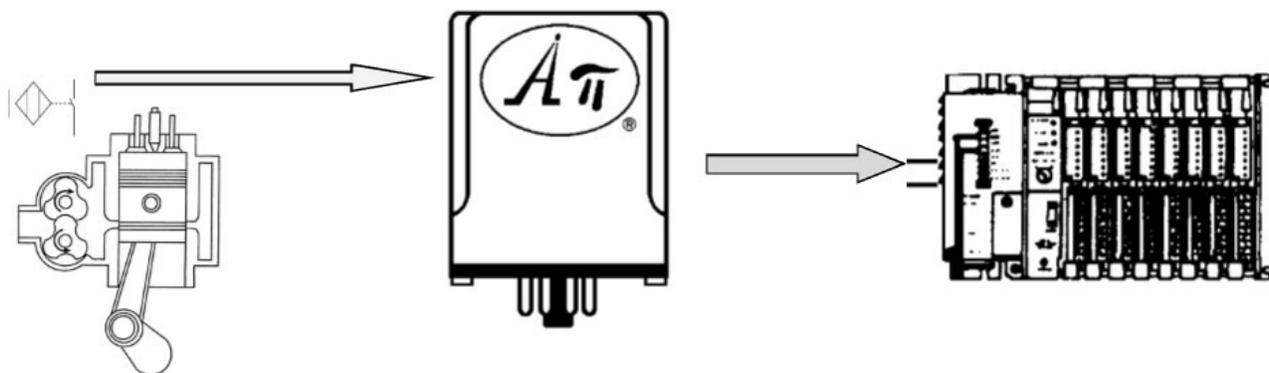
Location: Wisconsin

A motor manufacturer changed a Cummins engine RPM sensor interface so it was no longer compatible with the Parker engine controller on a customer's log harvester. The customer had contacted them to find a interface device to convert the engine sensor Pulse Width Modulated (PWM) output to be compatible with the engine controller. Harvesters are commonly used in the heavy forestry industry for felling, delimiting and buking trees.



The Engineering Issue

- The engineer has a requirement to monitor the engine RPM sensor via the motor manufacturers interface.
- The RPM sensor interface must be compatible with the currently-used engine controller.



API engineers built a custom-modified API 4300 G. The modification ensured the unit input was compatible with the output from the sensor interface, and that the unit output was compatible with the engine controller input.

Problem. Solved.