API-Cecomp Group *n'fo*

Technical & Application Notes

Application: Monitor engine RPM to control engine torque

Type of Company: Equipment Manufacturer — Engineering Solution Department

City State: New Berlin, WI

Problem: A customers motor manufacturer changed the Cummins engine RPM sensor interface so it was no longer compatible with the Parker engine controller. The customer contacted the engineering solution department for the equipment manufacturer to find a interface device to convert the engine sensor Pulse Width Modulated (PWM) output to be compatible with the engine controller on a log harvester.

Solution: API designed a modified version of one of their existing DC voltage converters to be compatible with the input to the engine controller.

API 4300 G D

Benefits of API's solution:
Availability of a functionally equivalent unit
Cost saving as no change to the controller or the engine was required
Lifetime warranty

API Unique Feature

LoopTracker
The API *LoopTracker* LEDs indicate the level of the input and/or output signal by varying its intensity. As the process signal increases, the brightness of the LED increases, and as the signal decreases the LED brightness decreases. Should a problem develop in the loop, such as a faulty device in the loop causing an incomplete path for current, the *LoopTracker* detects this and ceases to illuminate. This function works on both the input and output loop allowing the technician to diagnose the cause of the problem quickly and efficiently therefore minimizing system down time.

To find your local representative:
www.api-usa.com/api_rep_map.php

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