

EGR Probe for Detection and Differentiation of Hot and Cool CO₂

Disclosure Number

201303118

Technology Summary

The improved Two-Color EGR Probe will be modified to probe two separate cool (transition currently being used) and hot CO₂ transitions with significant population at ambient and a high temperature indicative of backflowing residual. Cool EGR from the external loop will activate the Cool Line, and hot backflowing residual will activate the Hot Line. Because we will be using a two-line spectroscopic technique, a temperature measurement will be integral to the concentration measurements.

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