



CR1 Harsh Environment Thermistor Coating and the Automotive Industry

Target Applications

- Air Intake Manifold (AIM) Sensors
- Exhaust Gas Recirculation (EGR) Systems
- Temperature and Manifold Absolute Pressure (MAP) Sensors
- Urea Storage and Delivery Systems (SCR)
- Gearbox and Transmission Sensors Exposed to ATF

Drivers

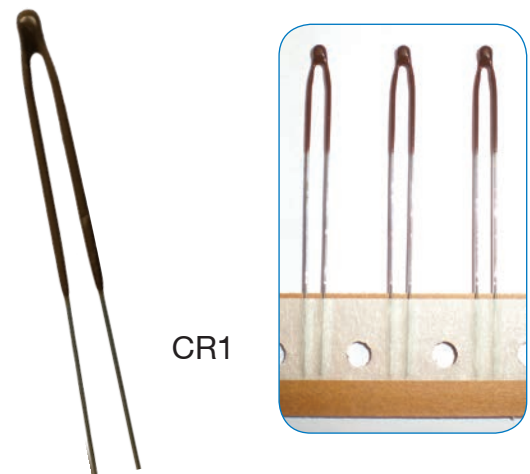
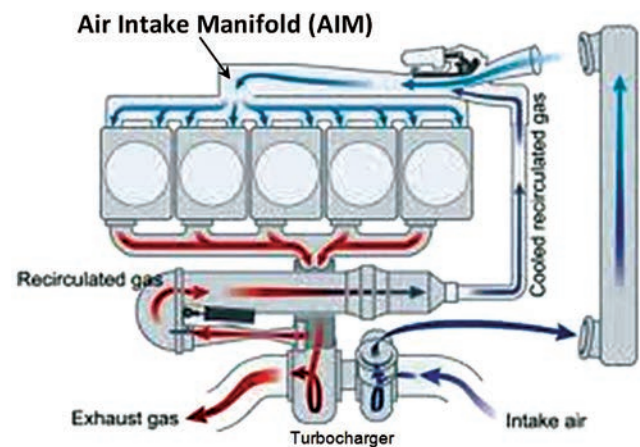
- Euro VI emissions reduction legislation 2015/2016
- Standard Epoxy thermistors will not meet 170°C
- Chip in glass products can corrode at glass/metal interface

Benefits

- Tested to AEC Q200
- Chemical resistance [Acids/Fuels/Oils/Urea]
- High temperature operation up to 190°C
- Water immersion
- High thermal shock performance
- Electrical insulation up to 1000V DC at 25°C
- Flexible – lead wires can be formed
- Continuous coating – no joints
- Fast time response
- Alternative to chip in glass sensors

Tested to AEC Q200

Exhaust Gas Recirculation (EGR) System in Modern Diesel Engine



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