

Stoneridge Advantage:

Stoneridge, Inc. is a publically traded company (NYSE: SRI) which offers highly engineered sensors and controls for applications in the global transportation industry. SRI has a global manufacturing footprint with facilities located in North America, Europe, South America, India and China. The Control Devices Division of SRI with technical design centers located in Lexington, Ohio, Canton, Massachusetts and Suzhou, China has been designing and manufacturing sensors and controls for various vehicle applications for over 45 years.



APPLICATIONS:

- Control and monitoring of critical after-treatment systems and engine components
 - ◇ Diesel oxidation catalysts (DOC)
 - ◇ NOx storage catalysts (NSC)
 - ◇ Selective Catalytic Reduction (SCR)
 - ◇ Diesel Particulate Filter (DPF)
- Turbocharger (gasoline & diesel)
- Compliance with On-board diagnostics (OBD)
- Exhaust gas recirculation (EGR)
- Engine protection

ADVANTAGES:

- Thin film platinum proven technology extremely high temperature applications
- Fast time response with closed tip robust design
- Flexible design options including tip length for various insertion depths, formed leads for ease of mounting/packaging, various connector options and lead lengths
- Global manufacturing strategy with regional engineering support



High Temperature Sensor Family

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TYPICAL HIGH TEMPERATURE SENSOR SPECIFICATIONS	
PARAMETER	SPECIFICATION
Probe Lengths	25mm to 70mm
Applications	Exhaust, Engine, EGR, SCR, Turbocharger
Nominal Resistance	900° C: 200ohms @0° C 219 ohms @ 25° C 600° C: 1000ohms @0° C 1097.35 ohms @ 25° C
900° C Tolerances	Continuous: -40° C to 300° C: +/-2.5° C 301° C to 900° C: +/- 1.0% Excursions 901° C to 1000° C: +/- 2.0%
600° C Tolerances	Continuous: -40° C to 300° C: +/-3° C 301° C to 600° C: +/- 1%
Operating Temperature Range	900° C: -40° C to 900° C 600° C: -40° C to 600° C
Storage Temperature Range	-40° C to 125° C
Excursion Temperature	900° C: 1000° C, 10 minutes continuous maximum 600° C: 600° C to 650° C, 1 hour continuous maximum
Measuring Current	900° C: 2.0 - 4.7 mA maximum @20° C 600° C: 2.7 mA maximum @20° C
Time Response	T63 as measured for a 300° C step change @ std air flow of 11 meters / sec: 12 sec Max [600° C & 900° C sensors] 8 seconds Max [Only 600° C with special construction]
Nominal Supply Voltage	5 VDC
Operating Voltage	4.5 VDC to 5.5 VDC
System Pull Up Resistor	1K ohm minimum

Stoneridge is an independent designer and manufacturer of highly engineered electrical and electronic components, modules and systems principally for the automotive, light/medium/heavy-duty truck, agricultural and off-highway vehicle markets. Our products provide engineered solutions that improve the efficiency and performance of electric and electronic systems.

The Control Devices Group focuses on products that sense, switch and control a specific function. Our key technologies include:

- Electromechanical Actuators
- Customer Actuated Switches
- Emissions Sensors
- Solenoid Coil Valves
- Powertrain Switches and Sensors
- Pressure Switches and Sensors
- Speed Sensors
- Temperature Sensors
- Position Sensors
- Emissions Sensors