

MOTORCYCLE OXYGEN SENSOR

CERADEX CORPORATION

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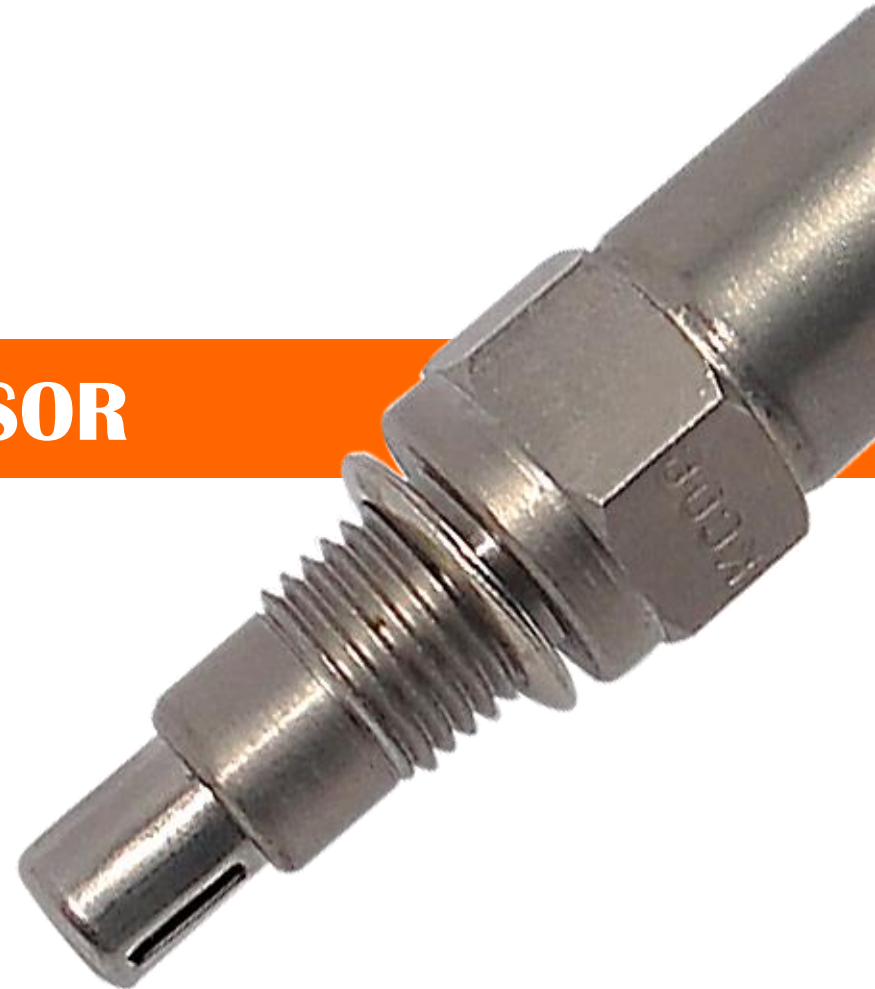
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Sales Department

By: William Huang



WHAT IS AN OXYGEN SENSOR?

Oxygen Sensor, also known as Lambda Sensor, is a critical component of automotive and motorcycle fuel injection system. It helps with the system in measuring the oxygen contents in the exhaust gas and output signal in voltages to ECU (electronic control unit) to inadvertently calculate the CO contents and air fuel mixture of exhaust gas. Vehicle must maintain an air and fuel mixture of 14.7:1, the industry's standard for efficient and optimal emission. Too much oxygen in this ratio means the engine is running lean; result in poor engine performance. Too much fuel in this ration means the engine is running rich; result in bad fuel economy and high emission. Both conditions may shorten the lifespan of a vehicle's engine and catalytic converter.



WHY CHOOSE CERADEX'S MOTORCYCLE OXYGEN SENSOR?

CERADEX's Motorcycle Oxygen Sensor is made from our very own special high sensitive planar ceramic element, enclosed inside of the sensor. The sensor's small M12 thread size as well as its small body size, is ideal for ODM and EFI pairing use. Our mechanical structure of the sensor comes with PTFE filter for better water and oil intrusion resistance. In addition, the sensor comes with higher sensitive heating element that assures reaching of high temperature at shorter time. This may be ideal for motorcycle environment. To ensure the highest quality and stability, every piece of sensor manufactured undergoes strict simulated bench for function check of lambda voltage output, as well as pressurized sealing bench for leakage check. With 20 years of experience in the field, choose CERADEX's Motorcycle Oxygen Sensor for your ODM and OEM needs!



SPECIFICATION

Spec	Detail
Sensor Element	High Sensitivity ZrO2
Technology	Planar
Circuitry	Isolated Ground
Frontal Tube	Spiral Single Layer
Hex Nut	M12
#Wires	4
Heating	Heated
Fitting	Direct Fit
Temperature Range	-40 ° C to 1200 ° C
Operating Temperature	>400 ° C



FEATURES

Monolithic Ceramic Element

- Allowing sensor to reach operation faster and thus decrease light off time

Formulated Element Surface

- Better protection against thermal variation within exhaust pipe

Formulated Protection Layer

- Keeps harmful gas from sensing element to prevent damages to sensing catalyst



FEATURES

Single Layer Spiral Frontal Tube

- To avoid exhaust gas direct hitting sensing element and thus longer element lifespan

Small Compact Size

- M12 thread size for small fitting environment in 2 wheelers

Circuitry

- Isolated circuitry body to minimize signal noise

Stainless Steel Casing

- Premium stainless steel body protecting against extreme temperature and environment

PTF Filter

- Ensures air inflow for air fuel sampling while preventing water and oil intrusion



PRODUCT VALIDATION

Function

- Burner, Connectivity

Mechanical

- Wire pull, Pendulum, Thread torque, Leakage

Environment

- Vibration (SGS), Thermal shock (SGS), Fuel ingress, Water spray, Stone impact, Salt mist (SGS), Temperature change

Durability

- Engine bench, On vehicle, On taxi

Oxygen sensor developed by CERADEX undergo series of tests to ensure quality and specification tolerance matching that of OEM. We gathered and referenced the methods of tests base on SAE, Bosch, and NGK standards, so that clients can feel safe about our products.



MATERIAL

Raw Zirconium

- Japan, China

Stainless Steel S310

- Germany

Catalyst Compound

- Germany, Japan

Heater

- Japan

Teflon Wire

- Taiwan (UL1726)

Connector

- OEM, Taiwan, China

At CERADEX, we understand the importance of good material makes good product, especially with product such as oxygen sensor, where it is positioned in high temperature environment. Good materials increase product's lifecycle, maintaining healthy function, and uphold safety standard. This is why we source our materials from counties with high quality standard.



QC CHECK POINTS

100% QC Check

- Leakage
- Function
 - Voltage
- Conductivity
- Resistance

SOP Check

- Density
- Flow velocity
- Weight
- Wire pull
- Thread torque
- Function
- Temperature
- Etc....

To further ensure sensor quality, CERADEX checks every single sensors for functions and leakage before shipping them out to clients. Our self-engineered control testers are calibrated by SGS and CLS on a yearly basis.



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