

25 Years of Automotive Oxygen Sensor Professional!!

CERADDEX



COMPANY INTRODUCTION

CERADDEX CORPORATION

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Automotive

WB

5 wire



**Wideband
Oxygen Sensor**

CERADEX

Motorcycle

Support updated emission standard

SE

O2 sensor



AF

4 wire



**Air Fuel Ratio
Sensor**

PS

1 - 4 wire



**Planar O2
Oxygen Sensor**

Automotive

**Exhaust Gas
Temperature
Sensor**

For diesel engine
& Turbocharger
use



EGT

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CERADEX

Technology
Marketing

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Quality

ABOUT CERADEX

**25 YEARS
SENSOR
MANUFACTURING**



Headquartered in Taiwan and with two TS-16949 certified manufacturing facilities, CERADEX is one of the few oxygen sensor manufacturers in the world that develop and produce the ceramic elements for its sensors. Starting with the research to formulize the zirconium, our core ceramic element is developed in house for both thimble and planar type structure, using both press forming process and stacked multi-layer thick film process. These processes allow us to achieve a portfolio of oxygen sensor technologies including thimble type, planar type, air-fuel ratio type, and wideband type oxygen sensors.

With 25 years of experience developing and producing Oxygen Sensor, CERADEX has proven itself to be at the forefront of oxygen sensor technology in the aftermarket sector, and the trustworthy supplier that seeks growth cultivation with its clients in over 50 countries worldwide!



COMPANY PROFILE

.Established: 1999

.2 manufacturing facilities located in Taiwan & Kun-Shan China

.employee: 70

.core technology:

- formulized YSZ conical
- formulized YSZ planar composite
- formulized single cell air fuel ratio planar composite
- formulized dual cell wideband planar composite

.currently holds 36 developing and non-developing patents of oxygen sensor material composites, process, and mechanics



MISSION STATEMENT

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“Our mission is to produce great quality products with value added service supports to cultivate growth with our clients worldwide!!”



OXYGEN SENSOR TECHNOLOGY COMPARISON

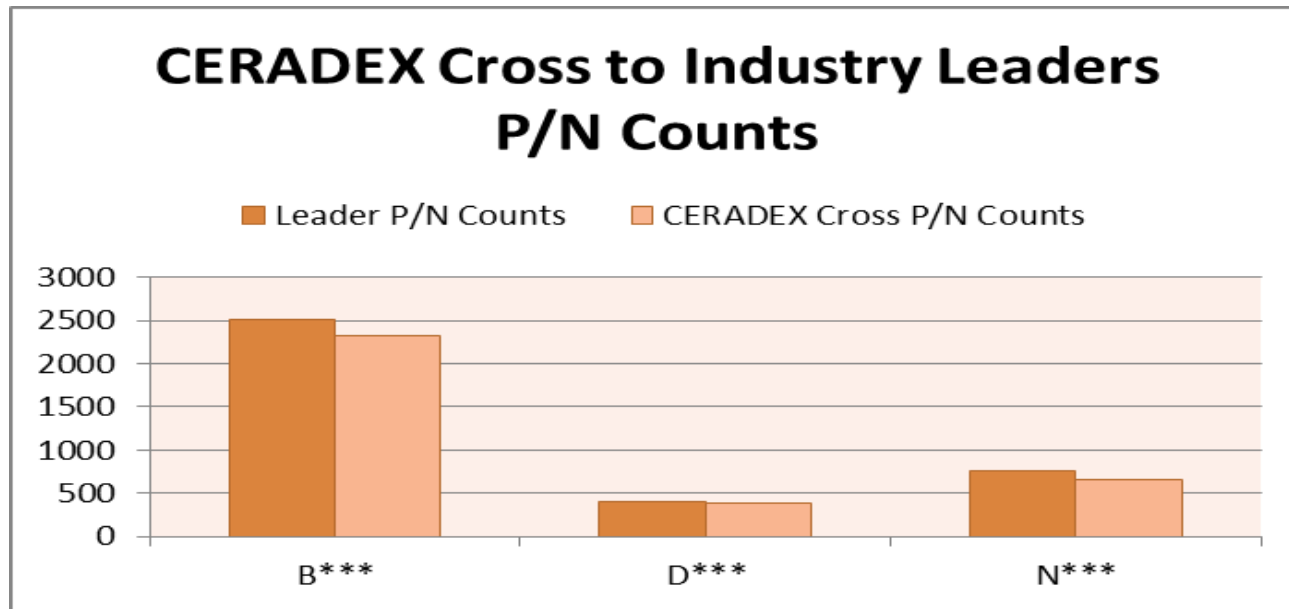
Available Technology Types vs. Industry Leaders

Technology Types	CERADEX	B***	D***	N***
Thimble Oxygen Sensor	X	X	X	X
Planar Oxygen Sensor	X	X	X	X
Air Fuel Ratio Sensor	X		X	
Wideband Sensor	X	X		X
Titanium Sensor				X

CERADEX is one of a few companies in the world that have successfully developed both the air fuel ratio sensor and the wideband sensor for the replacement aftermarket. In the market of ever evolving oxygen sensor technologies, CERADEX strives to follow closely the foot steps of world leaders in order to provides its customers the necessary applications for their coverage needs!



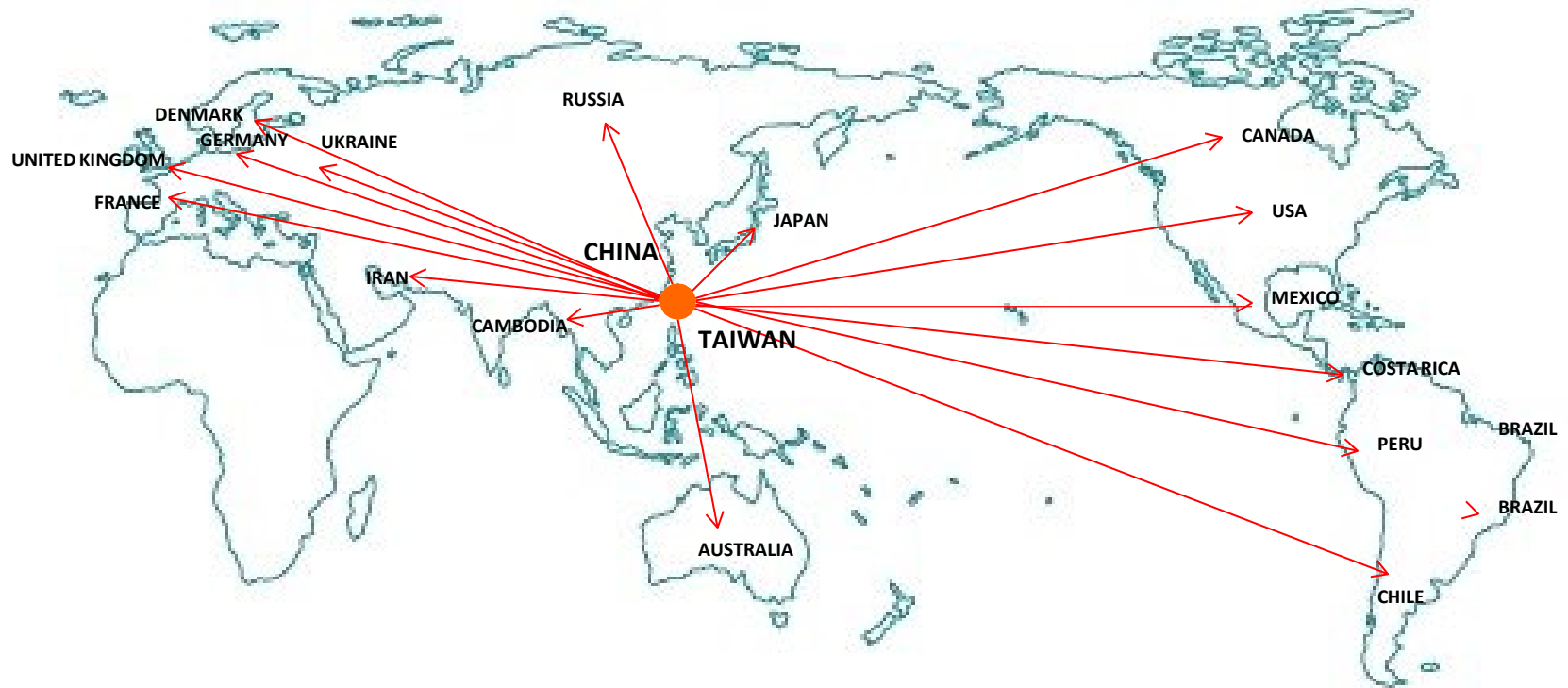
APPLICATION COVERAGE



CERADEX understands the importance of having a full range application coverage for the aftermarket, therefore, we work hard in providing our customers a full range program for their particular market! And with technologies such as air fuel ratio sensor and wideband sensor, CERADEX has the potential of having full application coverage cross to industry leaders.

The data from the chart above are gathered from the latest 2015 information for the European market. "CERADEX Cross" means how many part numbers from world leaders that CERADEX can cover

SALES MAP



CERADEX's oxygen sensor are sold to more than 50 countries worldwide!



SALES CHANNEL



Distributor

Warehouse



Retailer

OES



ODM

OEM



At CERADEX,
We understand the needs to
cater to different parts of
the market.

Our consolidation program
help distributor save stock
while our direct fit matches
OEM as required by
retailers.



PLANT

PLANT	#1(HQ)	#2
Location	Taiwan	China
Employee	50	20
Tech.	Thimble, Planar, A/F Ratio, Wideband	Thimble
Function	Dedicated Full Production Line	Assembly Line
Monthly Capacity	40,000 pc	15,000 pc
Delivery	30-45 days	30-45 days
Labs	QC, RD	QC

With two TS-16949 certified manufacturing facilities and 70 well trained staffs, CERADEX is ready to produce quality products that meet client's delivery requests. Clients also have the options to export in Taiwan and China.



TS-16949 pending re-certification

PRODUCT VALIDATION

The oxygen sensor developed by CERADEX undergoes a series of tests to ensure quality and specification tolerance matching that of OEM. Our product validation are based on SAE, Bosch, and NGK standards, so that clients can feel safe about our products.

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



PRODUCT VALIDATION

CERADEX continuously pushes itself to improve its development and production quality with annual audits of the quality system. All 100% QC check equipment is calibrated annually by third parties to ensure QA accuracy.

Quality System

- IATF-16949, ISO 9001, VDA 6.3

Material

- ROHS compliant

Electricity

- CE

Testing Equipment Calibration

- SGS, CLS



QC CHECK POINTS

To further ensure sensor quality, CERADEX checks every single sensor 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.

100% QC CHECK





- Leakage
- Function(Volt/Amp)
- Conductivity
- Resistance

SOP Check

- Density
- Flow velocity
- Weight
- Wire Pull
- Thread torque
- Function
- Temperature
- ETC....



QC CHECK POINTS

<p>Taiwan Motorcycle OEM</p>	<ul style="list-style-type: none"> • On vehicle 20,000 km • Bench simulation 200 h 
<p>Europe Motorcycle OEM</p>	<ul style="list-style-type: none"> • Bench simulation 200 h 
<p>China Automotive OEM</p>	<ul style="list-style-type: none"> • Engine endurance 
<p>Taiwan Taxi</p>	<ul style="list-style-type: none"> • On vehicle 150,000 km 
<p>Spanish Aftermarket</p>	<ul style="list-style-type: none"> • 25,000 km on vehicles • 500 hours bench 
<p>HK Taxi</p>	<ul style="list-style-type: none"> • Euro 3,4, and 5 emission on bench 

CERADEX'S oxygen sensor are tested and proven by OEM and aftermarket around the world. With more than 20 years of experience in research and manufacturing of oxygen sensors, CERADEX has become the top choice for world clients to partner and do business with.

All enquires are welcome. We look forward in doing business with you!!



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