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1. About AMPRO



About AMPRO

 We are a rapidly growing developer and distributor of automotive parts, focused on complex exhaust system sensors

 Founded in 2007, we are a family-run business with a strong passion for the environment, technology and automobiles

 Today our company is run by the family's next generation and a committed team of technical experts

 We are the German partner of a Joint Venture with industry-leading Chinese manufacturers

We offer the best reliability, accuracy and longevity, surpassing original equipment



2. Products



Products

What is a NOx sensor?

- The NOx sensor measures the proportion of nitrogen oxides in a vehicle's exhaust gas and enables efficient exhaust gas purification in conjunction with a SCR catalyst
- The aim is to keep nitrogen oxide emissions within the legal limits, making engine combustion as efficient as possible
- Most vehicles use two NOx sensors, installed before and after the SCR catalyst, they are used in most Euro 5 & 6 diesel vehicles
- The complex ceramic chip in the sensor head takes measurements directly in the hot exhausts stream, then the electronics continuously communicate the NOx values via bus to the ECU



NOx Sensor location in Exhaustion System







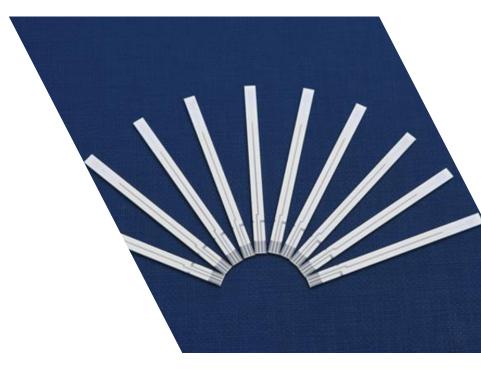
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3. Production Process



Ceramic Chip Technology

- Production process
 We have a complete process flow, from powder casting to film, printing, lamination, sintering, and finished product performance testing. Our process has reached the reference level
- Basic materials
 We import German zirconium oxide powder and US
 electrode materials, which allows us to form an
 independent and unique formula material system after a lot
 of experiments
- Research
 Our ceramic chip research and development is supported
 by the Shanghai Jiaotong University and the Chinese
 Academy of Sciences, providing valuable experimental data



Ceramic Chip



Advanced Equipment

- We introduced complete HTCC process production equipment, printing equipment, hot knife cutting machines, warm water isostatic presses, etc. from KEKO in Europe.
- There are 10 sintering machines at our production site. The annual output of chips can reach more than 1.200.000 pieces and the rate of finished chips is more than 98%.



Sintering machine



Testing, Calibration, Certification

- We ensure a high accuracy and performance testing at each production stage.
- Full final testing and calibration of each individual sensor is done on our unique self developed bench, providing a full, real-world simulation.
- IATF 16949 certified by nga
- E-Mark certified by NSAI
- EMC certified by GTS



Self developed testing and calibration bench



4. Our USPs



Quality

Products & Range

☆ Availability

Support



Quality 💬

- We are the only NOx manufacturer to supply Aftermarket and OEMs
- We offer true OE quality level. Every sensor is tested for 5 days and individually calibrated
- Our sensors are 100% newly produced, with high vertical integration, from base chemicals to finished product in one factory
- We use fully independently developed hardware and software
- Our products are 1:1 replacements for original parts



Calibration machine



Products & Range









- 185 NOx sensor models in current range
- Best market coverage, all European truck brands plus popular passenger cars & light commercial vehicles
- 100 new sensors in development
- Ready for the future, preparing next-gen NOx and Euro 7























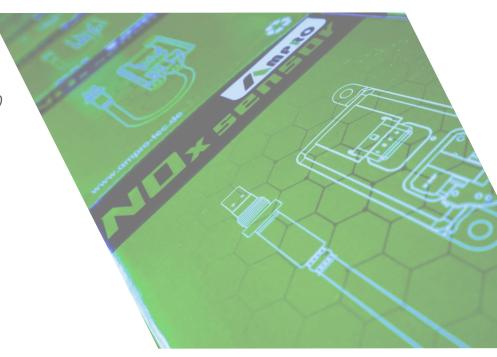






Availability 1

- Our stock is located in Germany. Currently we have 15.000 pcs in our AMPRO warehouse
- Popular models ship within one day
- Total production capacity is 1.200.000 pieces per year
- Very large orders are possible within 2 4 weeks delivery time



Support 🙂

- Our own brand is the German AMPRO brand
- We offer multilingual sales and technical support
- We offer trainings for sales and product management teams
- We provide full Marketing support to all our customers
- We distribute and support globally



Our own AMPRO brand



5. Goals



AMPRO's Goals

- Build AMPRO as a recognized brand for premium products
- Keep growing NOx sensor range, always offer best coverage
- Keep advantage over competition by better technology, better manufacturing processes, better support
- Develop and provide more products to complement NOx sensors, e.g. AdBlue pumps
- Use knowledge of BUS systems, protocols and advanced production to develop more sensor types
- Create more truly new aftermarket products and help customers be "first to market"
- Continue to build trust in AMPRO products, to take more market share from OE spare parts



Thank You





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