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March 14, 2016

NGK SPARK PLUG CO., LTD.

Launch of Hydrogen Leak Detection Sensor for Fuel Cell Vehicles (FCV)

NGK SPARK PLUG CO., LTD. (President and CEO: Shinichi Odo, Headquarters: Mizuho-ku, Nagoya, JAPAN hereafter the “Company”) is pleased to announce that the Company has released a hydrogen leak detection sensor for Fuel Cell Vehicles (FCV) .

FCV is expected to be a next-generation vehicle, while the hydrogen leak is highly concerned. It is indispensable to detect the hydrogen leak with reliability and precisely to secure safety driving. The hydrogen leak detection sensor alarms the driver and informs the slight hydrogen leak from the fuel cell system such as a hydrogen tank or a stack to stop the supply of hydrogen to the fuel cell.

The hydrogen leak detection sensor adopts a new detection method called "heat conduction", and it enables to detect the hydrogen leak precisely by measuring the amount of heat which the hydrogen takes from the heater in the sensor. Furthermore, it has features of quick activation, quick response, shock resistance and little aging deterioration since this method does not use a chemical reaction.

We have been developing the hydrogen leak detection sensor for FCV since 2006, and we have just released it.

We will strive to further expand sales of this hydrogen leak detection sensor, and contribute to the next-generation car society by bringing our technologies and ideas together.

■ Product Features

1. Concentration of hydrogen range: 0.2 to 2.0%

*the lower explosive limit of hydrogen is 4%

2. Operation range :-30 ~ 100°C

3. Low power consumption: 0.6W

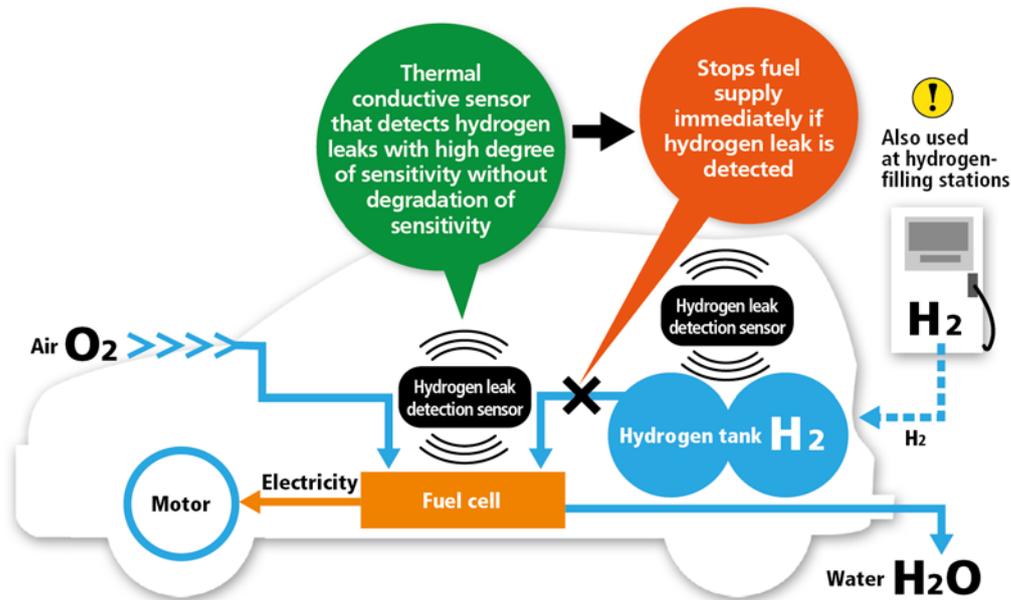
4. Start-up response: 2 seconds

*Time from turning on the power until the ready for measurement

■ Image of Hydrogen Leak Detection Sensor



- Image of how the Hydrogen Leak Detection Sensor works



- About NGK SPARK PLUG CO., LTD.

NGK SPARK PLUG CO., LTD., headquartered in Nagoya, Japan, is a comprehensive ceramics processing manufacturer. We hold a world leading share of spark plugs and automotive sensors for internal combustion engines and also offer a broad lineup of semiconductor packages, cutting tools, bio ceramics and industrial ceramics. Our global network of sales and manufacturing organizations with over 14,000 employees offer value creation to the world. We are now contributing to a sustainable society by developing products related to the environment energy, next generation vehicles and the medical field. The company's belief is to embrace the challenge of new era under the catch-phrase of "manufacturing only one and number one product".

For more information, please visit our website:

<http://www.ngkntk.co.jp/english/index.html>

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