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**PROFESSIONAL STANDARD OF THE PEOPLE'S
REPUBLIC OF CHINA**

中华人民共和国汽车行业标准

QC/T 823-2009

**Fuel sensor for automobile and motorcycle
汽车、摩托车用燃油传感器**

Issued on November 17, 2009

Implemented on April 1, 2010

**Issued by Ministry of Industry and Information Technology of the
People's Republic of China**

Ministry of Industry and Information Technology of the People's Republic of China

Notice

GK (2009) No. 63

Ministry of Industry and Information Technology has approved 139 industry standards including *Snow removal vehicle*. These include 29 automobile industry standards, 29 pharmaceutical equipment industry standards, 4 packaging industry standards and 77 textile industry standards (see Annex 1 for standard number, name, main content and the initial implementation date); and approved modification list of FZ/T 73001-2008 textile industry standard of *Socks* (See Annex 2). Now, the Ministry is to announce it and the standard modification list shall be implemented from the announcement date. Automobile Industry Standard has been implemented since April 1, 2010.

The above mentioned automobile, pharmaceutical equipment and packaging industry standards are published by China Planning Press, and textile industry standards are published by Standards Press of China.

Annex: Numbers and names of 29 items of automobile industry standards

**Ministry of Industry and Information Technology of the People's Republic
of China**

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Annex:

Numbers and names of 29 items of automobile industry standards			
Serial No.	Standard No.	Standard name	Be replaced standard
1	QC/T 807-2009	Snow removal vehicle	
2	QC/T 808-2009	Technical specifications for bloodmobile	
3	QC/T 631-2009	Automobile exhaust muffler assembly technical specification and test methods	QC/T 631-1999 QC/T 630-1999
4	QC/T 60-2009	Methods of running test on bench for motorcycles and mopeds	QC7T 60-1993
5	QC/T 658-2009	Air-conditioning refrigeration system performances road test method for motor vehicles	QC/T 658-2000
6	QC/T44-2009	Vehicle-windshield window wiper of motor	QC/T44-1997
7	QC/T 633-2009	The seats of passenger vehicles	QC/T 633-2000
8	QC/T 809-2009	Nozzle of gas-fired vehicle	
9	QC/T 810-2009	Solenoid switch for automobile starters specification	
10	QC/T 811-2009	The microwave maintenance vehicle for bituminous pavement	
11	QC/T 812-2009	Specifications and test methods for oil separator for crankcase ventilation of diesel engine	
12	QC/T 813-2009	Technical requirements for special equipments of dimethyl-ether vehicles	
13	QG/T 814-2009	Mounting requirements of special equipments for dimethyl-ether vehicles	
14	QC/T 815-2009	Quick-insert filling receptacle of DME vehicle	
15	QC/T 816-2009	Specification of mobile hydrogen refueling vehicles	
16	QC/T 817-2009	Durability requirements and testing methods of reed valve type second air injectors for motorcycles and mopeds	
17	QC/T 818-2009	Spoke-wheels of motorcycles and mopeds	
18	QC/T 71-2009	Rims of motorcycles and mopeds	QC7T 71-1993
19	QC/T 819-2009	Frame of two-wheel motorcycle and two-wheel moped	
20	QC/T 227.1-2009	Test methods of the friction performance of brake lining for motorcycles and mopeds	QC/T 227.1-1997
21	QC/T 227.2-2009	Test methods of the adhesive bonding shearing strength of brake lining for motorcycles and mopeds	QG/T 227.2-1997
22	QC/T 232-2009	Strength requirements and test methods for brake handle of motorcycles and mopeds	QC7T 232-1997
23	QC/T 820-2009	Stepper motor for automobile and motorcycle instrument	
24	QC/T 14-2009	Tyre air-pressure gauge for automobile	QC/T 14-1992
25	QC/T 821-2009	Engine cold-water and oil temperature sensor for automobile	
26	QC/T 822-2009	Engine oil pressure sensor for automobile	
27	QC/T 823-2009	Fuel sensor for automobile and motorcycle	
28	QC7T 824-2009	Tachometer sensor for automobile	
29	QC/T 462-2009	Automobile engine working hour meter	QC/T 462-1999

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Foreword

This standard is prepared according to industry standards from foreign companies.

This standard is proposed by National Technical Committee on Road Vehicles of Standardization Administration of China.

This standard is under the jurisdiction of National Technical Committee on Road Vehicles of Standardization Administration of China.

The responsible drafting organizations of this part are Hefei Bangli Electronic Co., Ltd, Shaoxing Longyi Automobile Fittings Co., Ltd, Shaoxing Jiasheng Instrument Co., Ltd, Wuhu Dongfang Vehicle Instrument Co., Ltd and Anhui Jinhaida Automotive Electronics Co., Ltd.

The chief drafting staff of this standard of this part includes Fang Xibang, Qiao Xiaoxia, Zhang Lu, Wang Wei, Shan Liming, Hu Heqi and Chen Jianhai.

This standard is issued for the first time.

Fuel sensor for automobile and motorcycle

1 Scope

This Standard specifies the classification, requirements, test methods, inspection rules and markings, packaging, storage and maintenance of fuel sensor for automobile and motorcycle (hereinafter referred to as the sensor).

This Standard applies to fuel sensor for automobile and motorcycle. Fuel sensor for other motor vehicles shall also be implemented with reference to the standard.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this standard. For the undated documents so quoted, the latest editions shall be applicable to this standard.

QC/T 727-2007 Instrument for automobile and motorcycle

QC/T 29106 Technical specification of low-voltage electric harness for motor vehicles

3 Classifications

Sensors shall be classified into three types including resistance, capacitance and pressure sensors; resistance type sensors shall be classified into two types including reed mode variable resistance sensors and sliding mode variable resistance sensors.

4 Requirements

4.1 General regulation

4.1.1 Product documentation:

4.1.1.1 The sensors shall conform to the requirements of This Standard and be manufactured according to drawings and design documents approved by established procedures.

4.1.1.2 Appearance and mounting dimensions of the sensors shall conform to the provisions of the product drawings.

4.1.1.3 Low-voltage electrical wiring harness for the sensor shall conform to the provisions of QC/T 29106.

4.1.2 Normal working environment conditions Normal working environment conditions



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Beijing Lancarver Translation Inc.

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