

KES

Water Temperature Sensor

KES D-A88C

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1. Purpose

This standard aims at securing proper quality by standardizing specifications

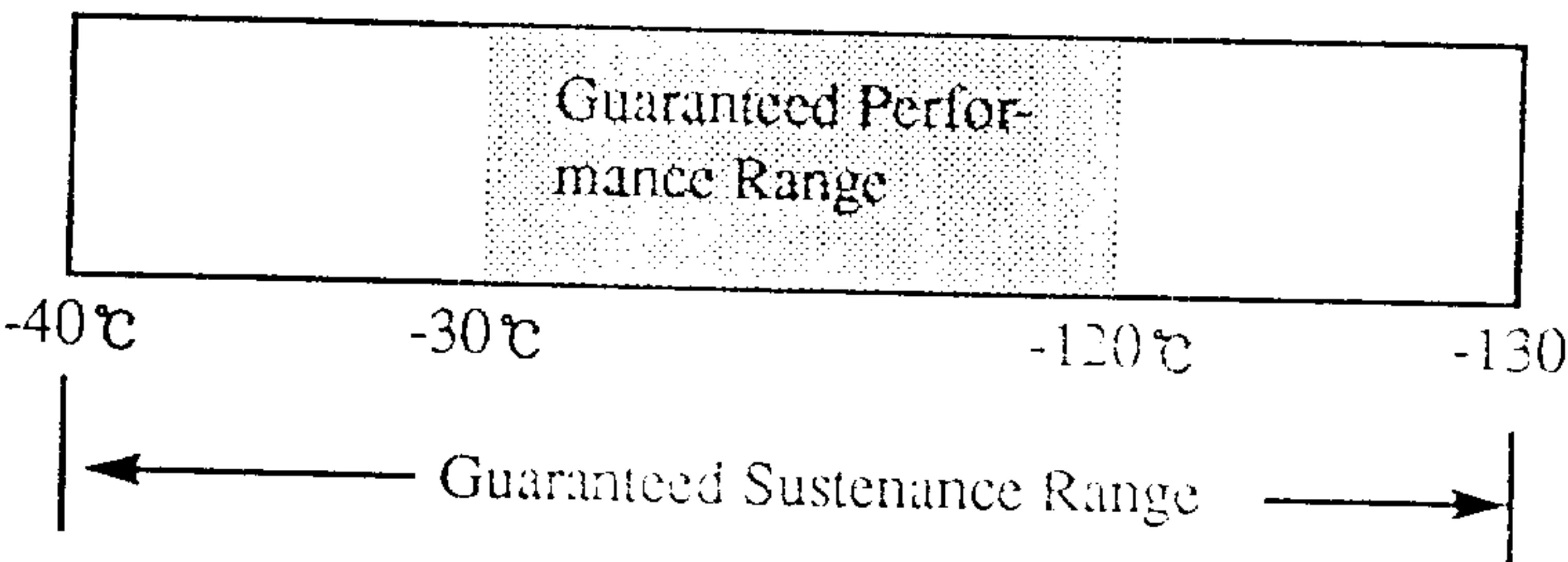
2. Scope of Application

This standard specifies the water temperature sensor for automobiles

3. Relation with the Drawing of Specification

This standard describes the test method, evaluation standard In case of requiring other methods, the drawing of specification has priority.

4. Basic Condition



5. Basic Performance Testing

Basic performances are shown in Table 1

6. Reliability Test for Durability and Environment Resistance

The reliability tests for the durability and environmental resistance are shown in Table 2

Standard Quoted

KS C 6022	(Salt spray testing methods for electronic components)
KS R 0015	(Method of moisture, rain and spray test for automobile parts)
JIS D 0207	(General rules of dust test for automobile parts)

Attached Table 1

Basic Performance

No.	Test Item	Testing Method	Evaluation Standard	Quality Rank
5.1	Resistance value	Resistance shall be measured at the temperature specified in the specification drawing	To conform to the specification	A
5.2	Resistance change rate	Under the basic condition, Series resistance: $2K\Omega$ Voltage: 16V shall be applied and the change of resistance shall be measured at normal temperature	The change of resistance to be within 10%	A
5.3	Insulation resistance	Insulation resistance between each terminal and the body shall be measured using a 500V megger.	min. $1K\Omega$	B
5.4	Responsiveness	The temperature shall be increased and decreased to and from -30°C and 120°C at the rate of 20 seconds/ $^{\circ}\text{C}$ and the resistance shall be measured at the temperature specified in the specification drawing	No delay in the change of resistance value	A