CW-061型热电偶温度变送器（K）

CW－061 type Thermocouple Temperature Transmitter (K)

1.工作原理

基于两种不同材料的导体两个连接处温度不同而产生热电势。热电偶一端称为工作端，置于被测介质中，另一端称为参比端或自由端，放在0℃(冰水混合物)温度下，当工作端的被测介质温度发生变化时，热电势随之发生变化，将热电势送入显示、记录仪表或微处理器进行处理，即可得到被测温度值。

2. 特点

该传感器具有耐高温、精度高、绝缘性能好、抗振动、冲击、耐湿热等特点，而且构造简单，使用方便。

3.应用范围

感受发动机进气道总温的测控。

1.Working Principle:

Thermoelectric force is produced by temperature difference between the two connections of the conductors of the two different materials. Work end of thermocouple is put into the measured medium, on the other side is called reference end or free end, put into ice and water mixture (ice) at 0 ℃, when measured medium temperature of work end change, the pyroelectric potential changes, the thermoelectric force sent to display, we can get measured temperature value after processing of recording instrument or microprocessor.

2. Characteristic:

The sensor has high temperature resistance, high precision, good insulation performance, resistance to vibration, shock, resistance to hot and humid, and simple structure, easy to use

3.Application:

total temperature measurement and control of air inlet for sensing engine.