

CY-082 型燃油压力传感器

CY-082 Fuel Pressure Sensor

1.工作原理

采用硅压阻效应原理，实现压力测量中的力—电转换。传感器是由敏感芯体和信号调理电路组成。当压力作用于传感器时，敏感芯体内硅片上的惠斯登电桥的输出电压发生变化，信号调理电路将输出电压信号进行放大处理、同时进行温度补偿、非线性补偿，使传感器的电性能满足技术指标要求。由于在信号调理电路中进行了抗电磁干扰设计，有效提高了传感器的电磁兼容性。

2.特点

CY-YZ-0101型燃油压力传感器具有使用温度范围宽、稳定性好、抗振动、抗电磁干扰、抗恶劣环境等特点。

3.应用范围

适用于燃油压力测量。

1. Working Principle

Silicon piezoresistive effect principle was adopted in order to realize pressure measurement of force – electrical conversion. Sensor is composed of sensitive core body and the signal conditioning circuit. When pressure acts on sensors, output voltage of Wheatstone bridge of silicon inside sensitive core body will change, which is amplified by signal conditioning circuit, at the same time temperature compensation and nonlinear compensation make the sensor's performance meet the requirements of technical indicators. Due to resistance to electromagnetic interference design of signal conditioning circuit design, it effectively improve the electromagnetic compatibility of the sensor.

2. Characteristic

CY – YZ – 0101 fuel pressure sensor has characteristics of wide temperature range, good stability, resistance to vibration, electromagnetic interference resistance, resistance to bad environment, etc.

3. Application

Applicable to the fuel pressure measurement



图 Picture CY-082

Anti-electromagnetic Interference Dynamic Pressure Sensor

1. Working Principle:

Working Principle of CY-083 anti-electromagnetic interference dynamic pressure sensor is silicon piezoresistive effect. It is fabricated in structure of rectangular silicon double island diaphragm, adopting semiconductor planar technology and silicon micromachining technology.

2. Characteristic:

Anti-electromagnetic interference dynamic pressure sensor has characteristics of small size, light weight, anti-