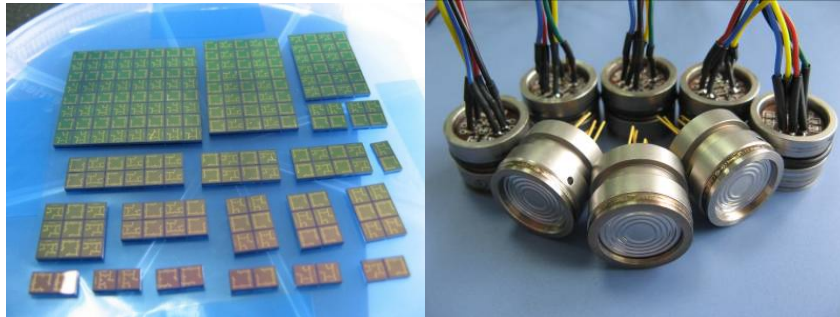


SCS16 High Temperature and High Pressure Oil Charging

Pressure Core



Features

- Excellent linearity
- Good long-term stability
- good dynamic characteristics
- Can work under high temperature for a long time

Description

SCS16 high temperature and high pressure series oil filled pressure core adopts high-precision and high stability SOI pressure chip as the sensitive structure. Through high-temperature silicone oil filling process and precision compensation process, the pressure measurement of 0 ~ 30MPa ~ 60MPa ~ 150MPa at high temperature can be realized.

The SCS16 series of oil-filled pressure sensor cores can be mounted into pressure connections with standard and specific threads to produce pressure sensors with various structures, and with standard signal processing circuits, the pressure signals can be converted into a variety of industrial standard electrical signal outputs, which are suitable for the assembly and production of various different pressure measurement products.

Performance Specifications

Measuring Medium	Various liquids or gases compatible with stainless steel and sealing ring
Range	0~30MPa~60MPa~150MPa
Internal Resistance	1k Ω
Power Supply	1.5mA、5mA、5V
Zero Output	$\leq \pm 2\text{mV}$
Full Range Output	30mV $\pm 10\text{mV}$
Thermal Zero Drift	$5 \times 10^{-4} / ^\circ\text{C} \cdot \text{FS}$ 0.05%FS / $^\circ\text{C}$
Thermal Sensitivity Drift	$1 \times 10^{-4} / ^\circ\text{C} \cdot \text{FS}$ 0.01%FS / $^\circ\text{C}$

Working Temperature	-50°C~200°C
Overload Pressure	≥200%FS
Response Time	≤1ms (10%~ 90%)
Seal Ring	Fluororubber
Filling Medium	High temperature silicone oil
Life	1×10 ⁸ Pressure cycle
Storage Temperature	-40°C ~ 125°C
Relative Humidity	0%~85%
Insulation Resistance	100MΩ(50VDC)

Structures and Dimensions

