Pressure Sensor

General information about ADIP-615OW Diezoresistive Silicon Oil Filled Weldable Pressure Sensor

ADIP-615OW series are MEMS technology based piezoresistive silicon sensor. It is a kind of high stable and high accuracy OEM preesure measurement sensor. This series are sealed with pressure diaphram of international well-known manufacturers. The external pressure is passed to sensitive elements through 316L stainless steel diaphram and internal silicon oil. Thus it can be used to measure all pressure media compatible with 316L stainless steel.

Every sensor was strictly temperature compensated for both zero and span before shipment to ensure measurement accuracy in complex environment. This series sensor offers two excitation power – constant current and constant voltage (for details please check technical parameters and type code). It also matches varied-size threads so is able to meet requirements of different customers.

Applications:

- Automation control
- Pressure instruments
- Level measurement
- Pressure transmitters

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Features:

- Low cost OEM
- High stability and accuracy
- Suited for pressure of 0-40Kpa…7Mpa
- Wide compenstation temperature range
- Compatible with 316L, suitable for corrosive media
- Standard mounting size
- Typical output: 0-100mV

Technical specification of the device:

Parameters		Min.	Typical	Max.
Accuracy(%FS)				
Non-Linearity[1]	40Kpa		±0.20	±0.30
	>40Kpa		±0.10	±0.20
Hysteresis[2]			±0.05	±0.1
Repeatibility3			±0.05	±0.1
Output(mV)				
Zero		-2	±1	2
Span(FS)		70		
Temp. characters				
Operation Temp.(℃)		-40		125
Compensation Temp(℃)	≤100Kpa	0		70
	>100Kpa	-10		70
Zero Temp.error(%FS)[4]	40Kpa		±0.75	±1.5
	>40Kpa		±0.75	±1.0
Span Temp. error(%FS)[4]	40Kpa		±0.75	±1.5
	>40Kpa		±0.75	±1.0
Thermal hysteresis(%FS)[5]			0.1	
Long term Stability				
Zero (±%FS annual)			0.1	
Span (±%FS annual)			0.1	
Supply Current		0.5mA	1.5mA	2mA
Input Resistance		2kΩ	2.5kΩ	3kΩ
Output Resistance		2.5kΩ	3kΩ	3.7kΩ
Load Resistance[6]		5MΩ		
Insulation Resistance(50V)[7]		50MΩ		

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