Analog Pressure Sensor

General information about ADIP-614OA Diezoresistive Silicon Oil Filled Analog Pressure Sensor

- ✓ ADIP-614OA 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.
- ✓ Each sensor was strictly temperature compensated for both zero and span before shipment to ensure measurement accuracy in complex environment.
- ✓ There are two options of excitation power -- current and voltage.

Applications :

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

ADLEER COMPANY

Info@adleer-ad.com
adleer-usa@adleer-ad.com
www.adleer-ad.com
+44-20-32900117

Features:

- High stability and high accuracy
- Pressure range:0-40Kpa…7Mpa
- Wide temperature compensation range
- Measuring corrosive media (media compatible with 316L)
- 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(℃)	40Kpa	0		50
	100Kpa	0		70
	>100Kpa	-10		70
Zero Temp.error(%FS)[4]			±0.75	±1.0
Span Temp. error(%FS)[4]			±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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