

UPB5 Silicon Differential Pressure Transmitter

Description

Based on piezo-resistive silicon technology, UPB5 differential pressure transmitter uses silicon differential pressure sensor with stainless steel isolated diaphragm as measuring elements. Made from 316L stainless steel and designed of rigid and robust construction, UPB5 differential pressure transmitter is suitable for application in harsh environment and measurement with corrosive pressure media.

This product has widely been used for measurement of differential pressure of pipeline fluids in petroleum industry, chemical industry, electric power hydrology etc.



Features

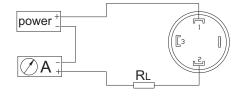
- Reliable performance, good long term stability
- Good static pressure, good ability of anti-impact and overload pressure
- Strong reversed polarity protection and current limiting protection
- Light weight, easy installation
- Integrated stainless steel construction design, small volume

Electrical connection

<u>Connection</u> <u>Cable Color(pin)</u>

Power"+": Red(1)

Signal"+": Black(2)



Wiring drawing of 2-wire 4~20mA output (hirschmann connector)

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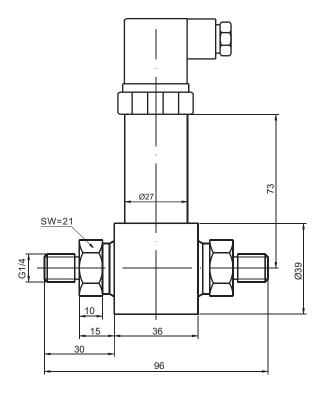


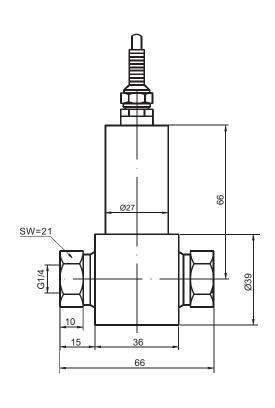
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Specifications

pressure medium	gas or dilute liquid compitable to stainless steel			
pressure ranges	0~0.1bar35bar			
pressure type	differential(D)			
overload pressure	200%FS(positive pressure side),100%FS(negative pressure side)*			
system pressure	1000%FS			
output signal	4~20mA, 0~5V, 0~10V, 1~5V,0.5~4.5V			
accuracy	0.1%FS(range>1bar),0.25%FS(standard), 0.5%FS			
system pressure effect	0.05%FS/bar			
load resistance	RL=(U-12V)/0.02A(4~20mA current output) U—loop voltage (V)			
long-term stability	<0.2%FS/year			
supply voltage	12~36VDC			
compensated temperature range	-10~+70°C (0~60°C for range 0.2bar,0.35bar)			
operating temperature range	-20~+100℃			
storage temperature range	-40~+120℃			
temperature coefficient of zero	0.2%FS/10℃			
temperature coefficient of span	0.2%FS/10℃			
insulation resistance	100MΩ@50VDC			
process connection	G1/4 male thread or others			
electrical connection	hirschmann connector or others			
material of wetted part and housing	1Cr18Ni9Ti			
material of pressure membrane	316L			
sealing	n-Butyronitrile or fluoro-rubber sealing ring			

Dimensions





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Ordering code

UPB5										
	ran	nge	measuring range: 0~0.1bar35bar							
	(0~X	()bar	X: actual measuring range							
			СО	de	accu	racy				
			Е	3	0.1%					
			()	0.25	%FS				
			[)	0.5%	FS				
					С	ode	output			
					(D1	4~20mA			
					() 2	0~5V			
					() 4	0~10V			
					(Oz	customer	request		
							code	Others		
							E1	hirschmann connector		
							E2	aviation connector		
							E3	3m PVC cable(lock nut)		
							Ez	other electrical connection		
							D1	5 digit LCD digital indicator		
							D2	4 digit LED digital indicator		
							Pn	G1/4 female thread		
							Pa	Air faucet		
							P6	M12×1 male thread		
							Pz	customer request		
UPB5	(0~1))bar		D	0	1	E1(D1)*Pn			

^{*:} The users determines whether to choose the options in the parenthesis option according to the working site.

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^{**:} Please note the transmitter's line pressure is <200bar, and the pressure in positive & negative cavity should not exceed the required value.