



UPB1-b Low Cost Piezoresistive Silicon Pressure Transmitter

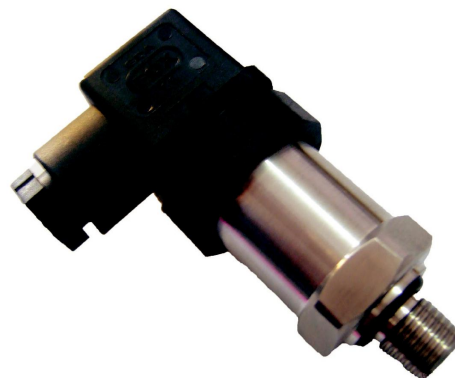
Description

Based on piezo-resistive silicon technology, UPB1-b silicon pressure transmitter uses isolated stainless steel diaphragm as sensing element. Its amplifier circuit is built in stainless steel housing, to transform sensor signal into standard output signal. This transmitter features integrated construction, rigid and robust, high measuring accuracy, good long term stability, and is suitable for pressure measurement in general industry applications.

This product is widely used for pressure measurement and control of petroleum, chemical-industry, metallurgy, power station and hydrology, etc.

Features

- Many measuring pressure range
- Wide application scope and long service life
- High accuracy & long-term stability
- Good ability on anti-corrosion & anti-impact



Specifications

pressure medium	gas or liquid compatible with ceramic and stainless steel
pressure ranges	0~0.1bar...1000bar
overload pressure	150%FS
output signal	4~20mA, 0~5V, 0~10V, 1~5V
accuracy	0.25%FS, 0.5%FS(standard)
load resistance	$R_L = (U - 12V) / 0.02A$ (4~20mA current output) U—loop voltage(V)
long-term stability	<0.2%FS/year
supply voltage	12~36VDC
compensated temperature range	0~70℃
operating temperature range	-30~80℃
storage temperature range	-40~100℃
temperature coefficient of zero	0.2%FS/10℃
temperature coefficient of span	0.2%FS/10℃
insulation resistance	100MΩ@50VDC
process connection	G1/4 or others
electrical connection	hirschmann connector or others
material of wetted part	1Cr18Ni9Ti
material of pressure membrane	316L
material of housing	1Cr18Ni9Ti
sealing	n-Butyronitrile or fluoro-rubber sealing ring

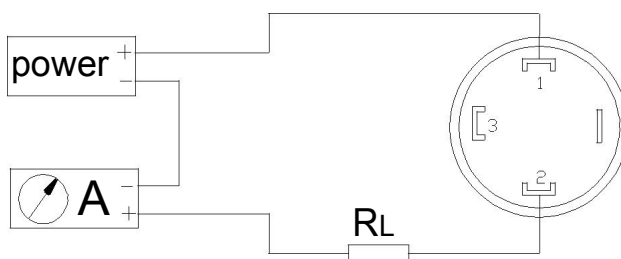


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Electrical connection

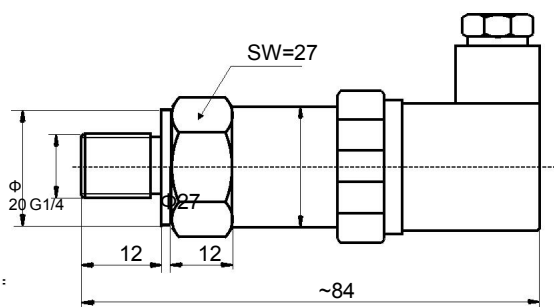
connection cable color(pin)

power“+” red(1)
 signal“+” black(2)



wiring drawing of two-wire 4~20mA output (hirschmann)

Dimensions



note: this product can be made according to customer's required dimensions.

Ordering code

UPB1-b							
	range	measuring range: 0~1bar...200bar					
	(0~X)bar	X: required measuring range					
		code	output				
		O1	4~20mA				
		O2	0~5V				
		O3	1~5V				
		O4	0~10V				
			code	accuracy			
			C	0.25%FS			
			D	0.5%FS			
				code	process connection		
				P1	G1/4		
			P3	1/4NPT			
			P4	M20×1.5			
			Pz	customer request			
				code	electrical connection		
				E1	hirschmann connector		
				E2	aviation connector		
				E3	shielded PVC cable		
				Ez	customer request		
UPB1-b	(0~200)bar	O1	D	P3	E1		