

UPB3-b Ceramic Pressure Transmitter

Description

UPB3-b ceramic pressure transmitter is made integrated structure by using high quality thick-film ceramic sensors and special amplified circuits. The output of UPB3-b is configured to 4~20mA current loop, or 0~5Vdc, or 0~10Vdc, or 1~5Vdc voltage signals. The pressure diaphragm of this transmitter is made from ceramic material, while its wetted parts is made from 316L stainless steel. Because of the thermal stability of ceramic and its thick-film resistance, the transmitter can be operated in a higher temperature range; at the same time, this also makes the zero & sensitivity thermal shifts over the whole operating temperature range of the transmitter is very small.

The compensated temperature range of UPB3-b is 0~70°C, UPB3-b is designed for use in most industrial application, and this product is suitable for measurement of most pressure medium (including corrosive medium) directly.

Features

- Many measuring pressure range
- Wide application scope and long service life
- Automatic testing and laser trimming compensating zero & sensitivity
- 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	0~1bar...200bar
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°C
operating temperature range	-30~95°C
storage temperature range	-40~100°C
temperature coefficient of zero	0.3%FS/10°C
temperature coefficient of span	0.3%FS/10°C
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	ceramic
material of housing	1Cr18Ni9Ti
sealing	n-Butyronitrile or fluoro-rubber sealing ring

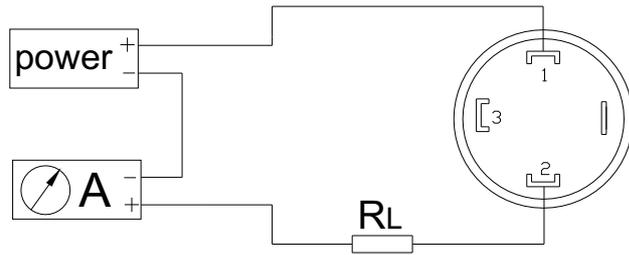
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Electrical connection

connection cable color(pin)

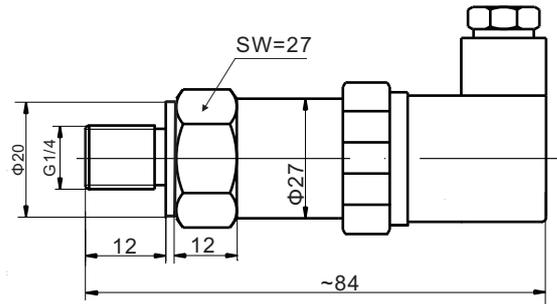
power“+”
signal“+”

red(1)
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

UPB3-b						
UPB3-b	range (0~X)bar	measuring range: 0~1bar...200bar				
		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				
UPB3-b	(0~200)bar	O1	D	P3	E1	