



# UPB2 Sanitary Pressure Transmitter

## Description

UPB2 sanitary pressure transmitter uses piezoresistive silicon chip as sensing element. UPB2 has clamping type, G1/2 thread type, and flange type for options. Its output signal can be made standard voltage output signal or current output signal.

This product is made with flush membrane structure, UPB2 have good ability on preventing fouling, crystallization and jamming of thick liquids.

UPB2 is widely used in food, medicine, health and wine industry etc.



## Features

- Pressure ranges: -1...0~0.4...400bar
- Flush membrane structure without input pressure hole & cavity
- Automatic testing and laser trimming compensating
- High accuracy, high strength, sanitary type, against fouling, dimensions can be customized.
- Has different output signals
- Pressure type: gauge pressure, absolute pressure, sealed gauge pressure

## Specifications

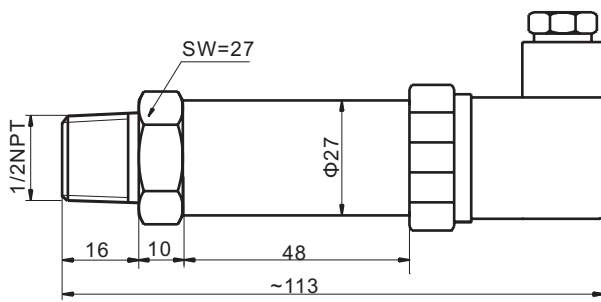
pressure medium	gas or liquid compatible with stainless steel
pressure ranges	-1...0~0.4...400bar
overload pressure	150%FS
output signal	4~20mA, 0~5V, 0~10V, 1~5V
accuracy	0.25%FS, 0.5%FS(standard)
load resistance	$R_L = (U - 12V) / 0.02A$ (4~20mA current output) U—loop voltage (V)
long-term stability	<0.2%FS/year
supply voltage	12~36VDC
compensated temperature range	-10~70°C
operating temperature range	-30~+85°C



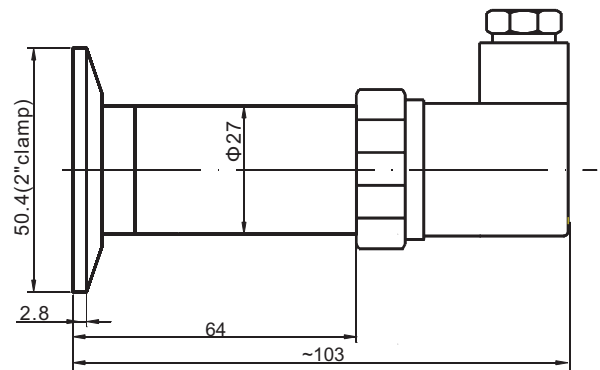
# UPB2 Sanitary Pressure Transmitter

measured media temperature range	-40~+100°C
temperature coefficient of zero	0.2%FS/10°C
temperature coefficient of span	0.2%FS/10°C
insulation resistance	100MΩ@50VDC
process connection	G1/2 or others
electrical connection	hirschmann connector or others
material of wetted part	1Cr18Ni9Ti stainless steel
material of pressure membrane	316L stainless steel
material of housing	1Cr18Ni9Ti stainless steel
sealing	n-Butyronitrile or fluoro-rubber sealing ring

## Dimensions



1/2NPT process connector



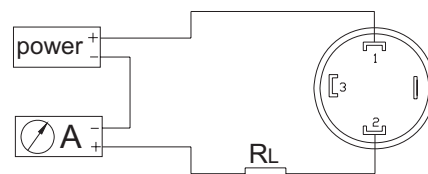
2"Clamp process connector

Note: this product can be made according to customer required dimension.

## Electrical connection

### Connection Cable color(pin)

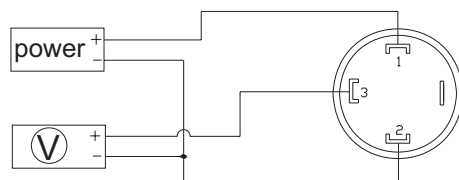
Power“+”	Red(1)
Signal“+”	Yellow(2)



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

### Connection Cable color(pin)

Power“+”	Red(1)
Signal“+”	Yellow(3)
GND	White(2)



Wiring of 3-wire voltage output(hirschmann connector)



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## Ordering code

UPB2							
UPB2	range	measuring range: -1...0~0.4...400bar					
	(X1~X2)bar	X1: lower limit of actual measuring range,X2:higher limit of actual measuring range					
		code	output				
		O1	4~20mA				
		O2	0~5V				
		O3	1~5V				
		O4	0~10V				
		Oz	customer request				
			code	accuracy			
			C	0.25%FS			
			D	0.5%FS			
				code	process connection		
				P2	G1/2		
				P4	M20×1.5		
				P9	1/2NPT		
			Pc	2" clamp			
			Pz	customer request			
				code	electrical connection		
				E1	hirschmann connector		
				E2	aviation connector		
				E3	water-proof connector		
				E4	3m cable(lock nut)		
				Ez	customer request		
UPB2	(0~200)bar	O1	D	P2	E1		

\*: Please indicate on the order sheet if the user have any special requirement.