



# UPB13 High Cost -Effective Pressure Transmitter

## Description

UPB13 pressure transmitter uses UPX19 piezo-resistive silicon sensor as sensing element. It adopts the latest DSP digital signal conditioning algorithm circuit, the circuit features with high anti-jamming & anti-impact performance, also with good non-linearity correction for sensors, this makes UPB13 have excellent linearity characteristics. UPB13 is designed with full stainless steel construction, and its installation is very easy.

With the mass production of the housing and the circuit, the production cost of UPB13 is decreased much. It is a good cost-effective product.

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

## Features

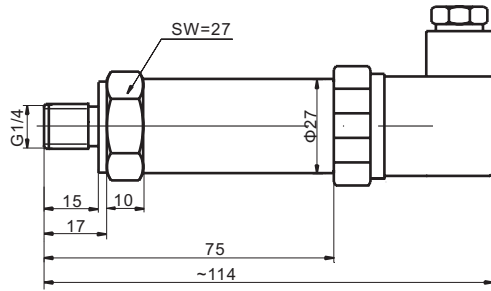
- High cost performance, highly cost-effective
- Full digital circuit, good performance
- Strong anti-jamming
- Wide measuring pressure range:-1...0~0.1...1000bar



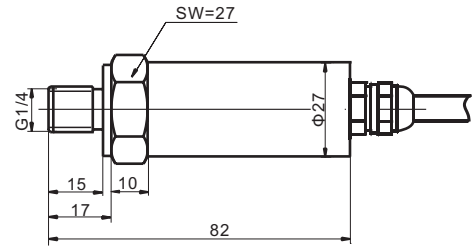
## Specifications

pressure medium	gas or liquid compatible with stainless steel
pressure ranges	-1...0~0.1...1000bar
overload pressure	150%FS
output signal	4~20mA, 0~5V, 0~10V, 1~5V
accuracy	0.25%FS(standard),0.5%FS
load resistance	$R_L=(U-9V)/0.02A$ (4~20mA current output) U—loop voltage (V)
long-term stability	<0.2%FS/year
supply voltage	9~36VDC
compensated temperature range	-10~70℃
operating temperature range	-30~+100℃
measured media temperature range	-40~+125℃
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	304 stainless steel
material of pressure membrane	316L stainless steel
material of housing	304 stainless steel

## Dimensions



Hirschmann Connector

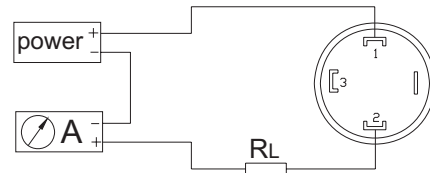


PG7 Connector

## Electrical connection

Connection      Cable color(pin)

Power“+”              Red(1)  
Signal“+”             Yellow(2)



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

## Ordering code

UPB13				
	range	measuring range: -1...0bar~0.1...1000bar		
	(X1~X2)bar	X1: lower limit of actual measuring range, X2: higher limit of actual measuring range		
	code	pressure type		
	G	gauge		
	A	absolute		
	S	sealed gauge		
	code	output		
	O1	4~20mA		
	O2	0~5V		
	O3	1~5V		
	O4	0~10V		
	Oz	customer request		
	code	electrical & process connection		
	E1	hirschmann(DIN) connector		
	E2	PG7 connector		
	P1	G1/4		
	P2	G1/2		
	P3	1/4NPT		
	P4	M20×1.5		
	Pz	customer request		
	D1	4 digit LCD digital indicator(optional)		
	D2	4 digit LED digital indicator(optional)		
UPB13	(0~10)bar	G	O1	E1P1