

UPC1 Silicon Pressure Transducer

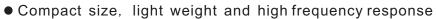
Description

UPC1 pressure transducer is piezoresistive pressure transducer by using piezoresistive sensing element based on advanced MEMS technology, suitable for the measurement of gauge pressure, absolute pressure and sealed gauge pressure. This product has such features as wide measuring ranges, good long term stability and excellent flexibility.

UPC1 pressure transducer is now widely used in many industries and laboratories for pressure measurement and control of various fluids.

Features

- Using MEMS silicon pressure dies
- High accuracy, stability and reliability
- Have gauge pressure, absolute pressure and sealed gauge pressure







Specifications

-	
pressure medium	gas and liquid compatible to stainless steel
pressure ranges	-10bar~0.11000bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS
output signal	≥70mV (0~10kPa≥35mV)
accuracy	0.1%FS, 0.25%FS(standard), 0.5%FS
zero offset	<2mV
long-term stability	<0.2%FS/year
excitation	1.5mA or 5VDC
compensated temperature range	-10~70℃ (0~60℃ for range 0.2bar,0.35bar)
operating temperature range	-30~100℃
storage temperature range	-40~100℃
temperature coefficient of zero	0.02%FS/℃
temperature coefficient of span	0.02%FS/℃
input/output resistance	2~6kΩ
insulation resistance	100MΩ@50VDC
response time	≤1ms
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

Xi'an UTOP Measurement Instrument Co., Ltd. Tel.: +86-29-8918 1790 Fax: +86-29-8918 1792

Website: www.utopsensor.com

Email: sales@utopsensor.com

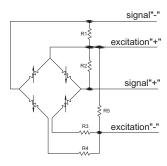


UPC1 Silicon Pressure Transducer

Electrical connection

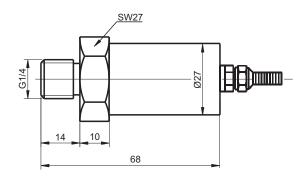
connection cable color

excitation"+" red
excitation"-" black
signal"+" green
signal"-" white



note: please refer to the user manual for the actual wiring

Dimensions



Ordering code

UPC1								
	range	pressure range: -1bar0~0.21000bar						
	(0~X)bar	X: required measuring range						
		code	pressure type					
		G	gauge					
		Α	absolute					
		S	sealed gau	ge				
			code	accuracy				
			В	0.1%FS				
			С	0.25%FS				
			D	0.5%FS				
				code	process cor	connection		
				P1	G1/4			
				P4	M20×1.5			
				P6	M12×1			
				Pz		customer request code electrical connection		
					code			
					E1	hirschmann	connector	
					E2	aviation con		
					E3	cable(lock nut)		
					Ez	customer red		
						code	excitation	
						S1	1.5mA	
						S2	5VDC	
UPC1	(0~20)bar	G	D	P1	E2	S2		

Xi'an UTOP Measurement Instrument Co., Ltd.

Tel.: +86-29-8918 1790 Fax: +86-29-8918 1792 Email: sales@utopsensor.com

Website: www.utopsensor.com