

Description

UPC9 sputtered thin- film pressure transducer is manufactured based on sputtering technics. The pressure medium can act on 17-4PH stainless steel diaphragm directly. The transducer's "micro" level resistance film is made by means of molecular bonding, then to be made to the needed Wheatstone bridge by microelectronics technology, and to form a metal-type sensing elements without using any adhesives. Therefore the transducer has no any moving parts, also do not need sealed chamber and oil-filled cavity. UPC9 pressure transducer is featured with good long-term stability for working is harsh environments.

UPC9 pressure transducer is a high-performance product and designed for oil well logging, well testing and pressure gauge application especially. It can work stably under high temperature, and have good ability on anti-vibration, impact resistance, moisture-proof.

UPC9 has been widely used for pressure measurement in harsh environments such as oil well logging, well testing, digital pressure gauge, internal combustion engines, compressors, high pressure testing machine etc.

Features

- Good long-term stability under high temperature
- Anti-vibration, impact resistance, moisture-proof
- High accuracy, small temperature drift
- Using sputtering technics to make pressure sensing element, the max. working temperature reaches 180 degree c
- Long service lift, pressure cycle reaches more than one million times



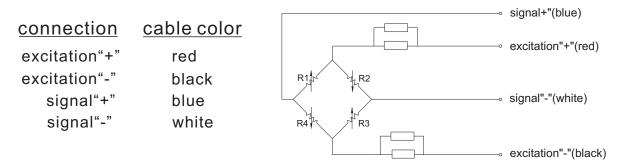
Specifications

pressure medium	gas or liquids compatible with 17-4PH stainless steel			
pressure ranges	0~52200bar			
overload pressure	200%FS 1000%FS			
ultimate overload pressure				
output signal	1mV/V~4mV/V (determined by pressure range)			
accuracy	0.25%FS(standard), 0.5%FS			
zero offset	<0.5mV			
long-term stability	<0.1%FS/year			
excitation	3VDC~20VDC			
operating temperature range	-55℃~180℃			
storage temperature range	-55℃~180℃			
temperature coefficient of zero	0.005%FS/℃			
temperature coefficient of span	0.005%FS/℃			
input resistance	3~4kΩ			
output resistance	2.8~3.8kΩ			
electrical connection	4-color high temperature wire or Pg7 connector			
process connection	M10×1 or others			
material of wetted part	316			
impact	20G , 11msec , ½ sine			
shake	10G peak , 20Hz~ 2400 Hz			
protection	IP67			

Website: www.utopsensor.com Email: sales@utopsensor.com

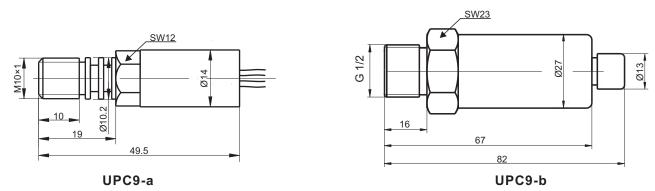
UPC9 Sputtered Thin-film Pressure Transducer

Electrical connection



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

Dimensions



Ordering code

ι	UPC9-a								
UPC9-b									
		ra	nge	pressure range: 0~52200bar					
		(0~X)bar		X: required measuring range					
			code		accuracy				
			С		0.25%FS				
				D		0.5%FS			
						code	process connection		
						P8	M10×1		
					P6	M12×1			
				P2	G1/2				
				Pz	customer request				
ι	JPC9-a	(0~2	00)bar	С		P8			