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## **SPT430 Vacuum Gauge**

#### **Features**

- Exceptional Long-Term Stability
- Range from 0.005bar up to 0.2bar
- Convenient installation and long-term stability.
- Multiple output, process connection optional
- Compact size



#### Introduction

SPT430 vacuum gauge is developed especially to measure every lower pressure. It has good overpressure, good reliability, small temperature drift, convenient installation and long-term stability. It is widely used in pressure measurement of petroleum, chemi-industry, medicine, metallurgy, power station, mine, city water supply and drainage and hydrology, etc. It is also well used for accurate measurement of lower pressure and high-overpressure flowing pressure.

## **Specification**

Item	Specification
Pressure range	0 ~ 0.0050 ~ 0.2bar (Absolute)
Over pressure	10 times FS
Pressure type	Absolute
Process connection	G1/4 male thread (optional)
Accuracy	±1%FS. ±0.5%FS optional
Long term stability	≤±0.3%FS/year
Offset thermal drift	0.1%FS/℃(≤1 bar); 0.05%FS/℃( > 1 bar)
Span thermal drift	0.1%FS/℃(≤1 bar); 0.05%FS/℃( > 1 bar)
Environment temp.	-30~70℃, Intrinsic safe version: -10℃ ~ 60℃
Storage temp.	-30~85℃
Media Temp.	-30~80°C
Power supply	12~28VDC(Intrinsic safe version is supplied through safe barrier)
Output signal	4-20mA. 0-5V. RS485. etc
	$RL \le ((U-12V)/20mA) - R$ wire $(k\Omega)$ (R wire is lead resistance $(k\Omega)$ ,U is power supply
Load	voltage(V) ).
Housing protection	IP65 for plug type, IP68 for cable type

### **Construction Material**

Housing	SS304				
Pressure port	SS304				
Diaphragm	ceramic				
O-Ring	Viton				
Plug housing	Plastic				

### **Outline Dimension** (Unit:mm)

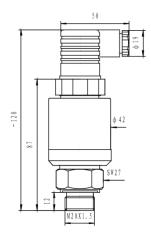


Chart 1- Type I

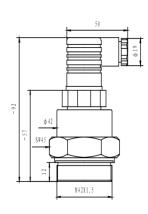


Chart 2-Type  $\,\Pi\,$ 

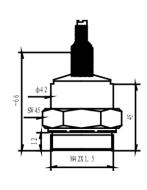
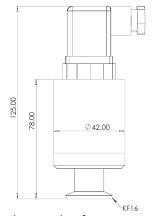


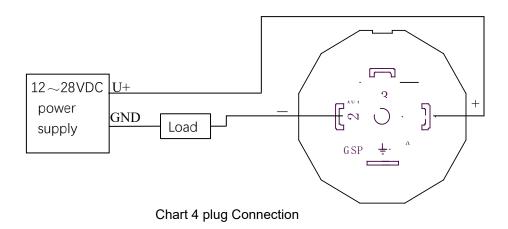
Chart 3-Type Ⅲ



KF16 connection version for vacuum gauge

#### **Electrical Connection**

Before electric connection, please install the transmitter vertically. For type I or type I transmitter, please open the plug firstly, and then connect as chart 4. For type I, please connect as chart 5:



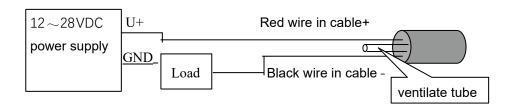


Chart 5 Cable Connection

### **Order Information**

SPT430 Vacuum Gauge													
Range 0					0 ~ 0.0050 ~ 0.2bar (Absolute)								
		[0~	X] bar	X: the actual measured pressure									
			Code	)	Output signal								
			E	Ē	4~20mADC								
				J 0~5VDC									
			V 0~10VDC										
			V1 0.5~4.5VDC										
						Code		Construction material					
					Code	D	Diaphragm		Pressure port	Housing			
					22		Ceramic		SS304	SS304			
						24		Cera	amic	SS316L	SS316L		
							Co	de	Others				
									B <sup>-</sup>	1	DIN436	50 connector	
							B	2	Cable exit				
							В:	3	M12 connector				
							C	2	G1/4 m				
							C	3	G1/2 male thread  KF16 connection(for vaccum)				
							С	16					
							G	}	Gauge Sealed gauge				
							S	3					
							Α	١	Absolut	e			
SPT430 [0~1bar]					E	22	B1C1	16G		the whole s	spec		

#### Note:

- 1. Please pay attention that the media should be compatible with the contacted parts;
- 2. If any special requirements on function or specification, please contact with us freely.