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PK40X-PF High Purity PFA Pressure Sensor

Application scenarios



Photovoltaic



Cleaning equipment / semiconductor wet process equipment



Corrosive liquid environments



Liquid dispensing system





Product features

Reliable

Constructed with high-purity PFA integral molding structure, suitable for high-concentration acid and alkali media, safe and reliable

Range

It can achieve wide range measurement from -14.7 to 145

Acid Alkali resistant

The sensor is made of ceramic, and a sapphire version is available for HF/HCI applications.

Connection

Various connection methods in high-purity PFA material are available for selection.

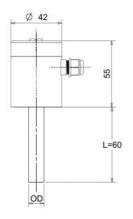
Product Description

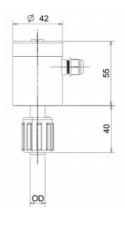
- This product features an integral structure made of high-purity PFA, with various types of connectors available to meet the requirements of semiconductor, photovoltaic, flat panel display, highly corrosive environments, and special liquid pipelines.
- The pressure range covers from -14.7 to 145 psi, with customizable ranges available to meet specific customer requirements.
- The product undergoes 100% testing and temperature compensation, ensuring stable and reliable product data.
- The sensor of this product is made of ceramic, which is compatible with acid and alkali media as well as ultra-pure water. For special media such as HF/HCI, a dedicated sapphire sensor can be selected to better withstand strong acid environments, effectively extending the product lifecycle.

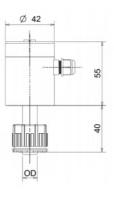
Technical parameters

Applications	Liquid measurement for gauge pressure and vacuum		
Measurement range	-14.70145psi		
Accuracy class (@25℃)	±1%FS		
Temperature coefficient	±0.1%FS/°C		
Sensor material	Ceramic/Sapphire		
Overload pressure	Maximum 1.5 times Full Scale		
Media temperature	080°C		
Ambient temperature	-1065°C		
Temp. compensation range	040°C		
Supply voltage	DC24V (1030 V DC)		
Output signal	420mA, Digital display 420mA+PNP/NPN*2		
Connection material	PFA		
Diaphragm material	PFA		
Stability performance	Typical: ±1%FS/Year		
Connection method	Tube, flared, bead-end fitting		
Protection grade	IP55		

Specifications and Dimensions (Unit: mm)



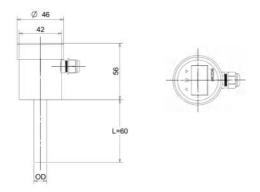




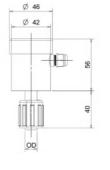
Straight tube type

Flared type

Bead type

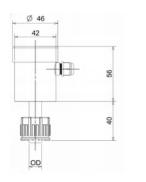


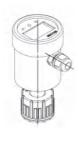
Digital Display+Straight tube





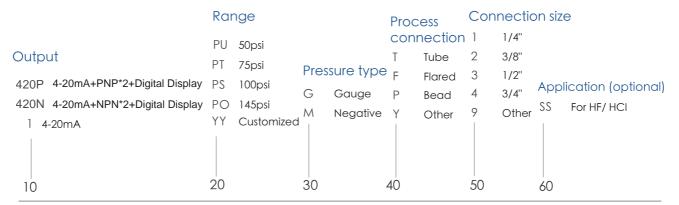
Digital Display+Flared





Digital Display+Bead

Selection specifications



PK40X-PF high-purity PFA pressure sensor

Selection rules:

Requirements: 4-20mA output, 0-100psi,

and 1/2 "Tube

Select model: PK40X-PF1PSGT3

Range Code Table					
Code	Range		Code	Range	
G100K	(0~0.1) MPa		BG100K	(-0.1~0.1) MPa	
G200K	(0~0.2) MPa		BG200K	(-0.1~0.2) MPa	
G300K	(0~0.3) MPa		BG300K	(-0.1~0.3) MPa	
G500K	(0~0.5) MPa		BG500K	(-0.1~0.5) MPa	
G700K	(0~0.7) MPa		BG700K	(-0.1~0.7) MPa	
G1M	(0~1) MPa		BG1M	(-0.1~1) MPa	