

PK40X-PF UHP PFA Pressure Sensor

Application Scenarios



Semiconductor /Photovoltaic



Cleaning/Wet Process Equipment



Corrosive Medium



Chemical Blending System



Product Features

Reliable	Range	Acid/Alkali Resistant	Connection
High-purity PFA one-piece molded structure for enhanced safety and reliability.	Capable of wide-range measurement: -14.7 to 145 psi	The sensor is ceramic, and a sapphire version is available for HF/HCl applications.	Various connection options in high-purity PFA material are available.

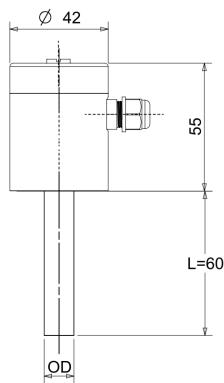
Product Description

- This product features a high-purity, one-piece molded PFA structure with selectable connector options, fully suitable for applications in semiconductor, photovoltaic, flat-panel display, highly corrosive acid/alkali environments, and specialty liquid pipelines.
- The pressure range covers -14.7 to 145 psi, with customizable ranges available to meet specific customer requirements.
- Each unit undergoes 100% testing and temperature compensation, ensuring highly stable and reliable performance.
- The sensor element is ceramic, offering excellent compatibility with acid/alkali media and ultrapure water. For special media such as HF / HCl, a sapphire sensor option is available, providing superior resistance to strong acids and significantly extending product lifetime.

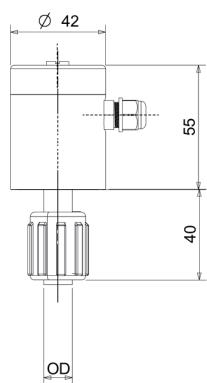
Technical Specifications

Application Scenarios	Gauge, Negative Liquid Pressure Measurement
Measurement Range	-14.7.....0.....145psi
Accuracy (@25°C)	±1%FS
Temp Coefficient	±0.1%FS/°C
Sensor Material	Ceramic/Sapphire
Over pressure	Max: the rated pressure × 3
Medium Temperature	0.....80°C
Ambient Temperature	-10.....65°C
Compensation Range	0.....40°C
Supply Voltage	DC24V (10...30 V DC)
Output Signal	4...20mA, Display version: 4...20mA+PNP/NPN*
Connection Material	PFA
Diaphragm Material	PFA
Stability Performance	Typical: ±1%FS/Year
Process Connection	Tube, Flared, Pillar etc.
Protection Level	IP55

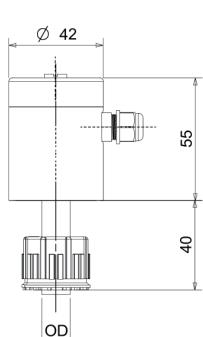
Specifications and Dimensions (Unit: mm)



Tube

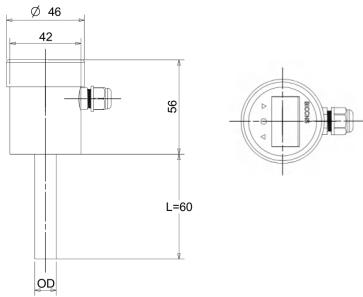


Flared

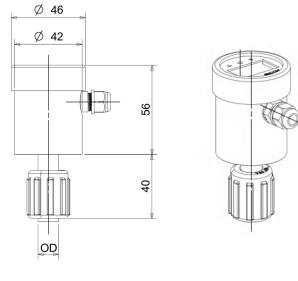


Pillar

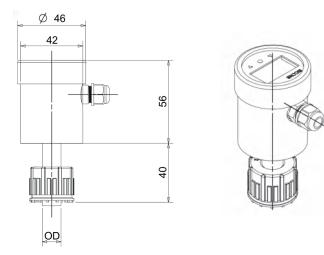
Dimensions are for reference only. Actual product dimensions may vary.



Display+Tube



Display+Flared



Display+Pillar

Selection Specifications

Output	Range		Type	Connection	Connection Size		Application (Optional)
	PU	50psi			1	1/4"	
420P 4-20mA+PNP*2+Display	PT	75psi		F	2	3/8"	
420N 4-20mA+NPN*2+Display	PS	100psi	G Gauge	P Pillar	3	1/2"	
1 4-20mA	PO	145psi	M Negative	Y Others	4	3/4"	
	YY	Customized			9	Others	SS HF/ HCI
10					50		
	20					60	
		30					
				40			

PK40X-PF UHP PFA Pressure Sensor

Selection Example:

Requirement: 4-20mA Output, 0~100psi and 1/2"Tube

Selected 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