

Model PCA, PCD

Corrosion Proof Pressure Transducer

Description

PCA, PCD designed for high precision measurement and consist of ceramic pressure cell. PCA made of PTFE or PTA, the material of component can be against corrosion, it has no seal inner part. PCD precision pressure cell is surrounded by TEFLON and corrosion-resisting O-ring is airtight. These specification be good at corrosion proof, PCD applies to various control equipment.

Features

- ▶ VDC, mA output
- ▶ Measuring range 0~2MPa
- ▶ 0.5%FS accuracy
- ▶ IP55 Protection
- ▶ DI Water, Strong ACID, Strong ALKALI
- ▶ Piezoresistive Ceramic Cell
- ▶ PTFE media-wetted materials

Applications

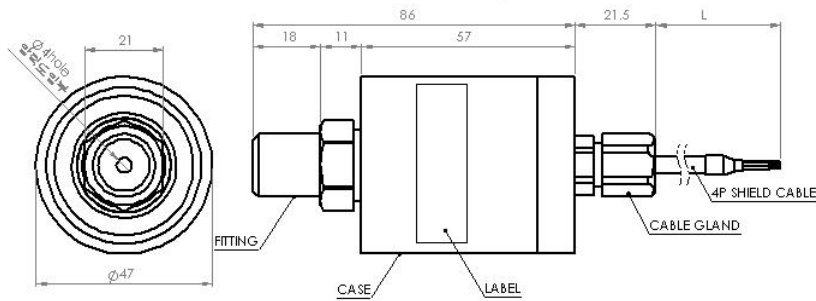
- ▶ Semiconductor Manufacturing Equipment
- ▶ High-Purity Fluids
- ▶ Chemical Process
- ▶ Physics and Chemistry Equipment
- ▶ Waste Disposing Equipment



Specifications

	PCA	PCD
Range	0~100, 200, 300, 500, 700, 1000kPa (Gauge)	0~50, 200, 300, 500, 700, 1000, 2000kPa (Gauge)
Performance		
Accuracy	±0.5%FS	
Thermal Effect on Zero	±0.1%FS/°C	
Thermal Effect on Span	±0.1%FS/°C	
Compensated Temperature Range	10 ~ 50°C	
Operating Temperature Range	10 ~ 70°C	
Electrical		
Excitation	11 ~ 28VDC	
Output	1~5V, 4~20mA(2WIRE)	
Electrical Connection	Cable	
Physical		
Proof Pressure	120%FS Max.	
Burst Pressure	150%FS Min.	
Vibration	49.1m/s ² {5G}, 10~500Hz	
Shock	490m/s ² {50G}	
Pressure port	R(PT)1/4", G(PF)1/4", R(PT)3/8", G(PF)3/8"(Stock)	
Media-Wetted Materials	PTFE	Ceramic(AL ₂ O ₃ ,99.9%),Teflon Coating, O-ring
Weight	Approx. 200g (include cable 50cm)	

Dimension



Wire Color	Connections	
	2Wire(mA)	3Wire(Vdc)
Red	Input ⊕	Input ⊕
Black	Output ⊕	Common ⊖
Green		Output ⊕
Shield	Earth	Earth

Ordering Information

Model Name	PCA H 0010 K A C A	Option
Output		A : Normal
E : 1~5VDC H : 4~20mA		Connecting Methods
		C : Cable
Pressure Range		Pressure port
XXXX : Pressure		A : R(PT)3/8" B : G(PF)3/8" C : R(PT)1/4" D : G(PF)1/4"
		Pressure Unit
		R : kPa M : MPa B : bar K : kgf/cm ² P : psi H : mmHg C : cmH ₂ O