



Introduction

The PZP300 pressure transducer uses silicon piezoresistive pressure sensor with isolated stainless steel diaphragm as signal sensing element, through automatic testing and compensating zero and sensitivity in wider temperature range. The transducer can transfer pressure to linearization voltage signal. The material of housing and pressure port are stainless steel. Through strict component making, semi-finished product and all-finished product testing and aging, the transmitter is stable and reliable, having excellent flexibility, sensitivity and diversity.

The product is widely used for pressure measure and control of petroleum, chemi-industry, metallurgy,power station and hydrology, etc.

Features

- Wider pressure range
- Pressure types: gauge, absolute and sealed gauge
- Accuracy up to 0.25%fs
- Isolated construction to measure various media
- Full stainless steel construction
- Optional pressure port

Applications

- Industrial process control
- Liquid pressure system
- Gas, liquid pressure measurement
- Refrigeration equipment and air conditioner
- Pressure calibrator
- Mechanical engineering

Proza Electronic Technology

website: www.prozasensor.com email: sales@prozasensor.com

Tel.: +86-029 89117729 Fax: +86-029 89117729



Basic Specification

Parameter	Units	Data (*)	Notes	
Pressure types and ranges	bar	Gauge(G): -1~0, 0~0.2, ~0.35, ~0.7, ~1, ~2.5,~4,~6,~10,~16,~25,~40 Absolute(A): 0~1, ~2.5, ~4, ~6, ~10, ~16, ~25 Sealed Gauge(S): 0~10,~16,~25,~60,~100,~160,~250,~400,~600		
Overload pressure	%fs	200 (≤ 200 bar), 150 (>200 bar)	[2]	
Output signal	mV	≥ 60		
Zero offset	mV	≤ ±2		
Excitation	mA	Current: 1.5		
Excitation	V	Voltage: 10		
Accuracy	%fs	\leq ±0.25 (standard), \leq ±0.5	[3]	
Long-term stability	%fs/year	≤ ±0.2		
Input resistance	kΩ	3~8		
Output resistance	kΩ	2.5~6		
Insulation resistance	MΩ	100 @ 100Vdc		
Compensated temperature range	°C	0~70		
Operating temperature range	°C	-20 ~ +85		
Storage temperature range	°C	-40 ~ +125		
Temperature coefficient of zero offset	%fso/°C	≤ ±0.03(≤ 100kPa), ≤ ±0.02(>100kPa)		
Temperature coefficient of span	%fso/°C	≤ ±0.03(≤ 100kPa), ≤ ±0.02(>100kPa)		
Environment protection	/	IP65 (standard), IP67 (only for cable connection)		
Pressure connection	/	G1/2 or other		
Electrical connection	/	plug connection or cable connection		
Pressure diaphragm	/	316L SS		
Wetted parts material	/	316 SS		
Electronics housing material	/	304 SS		
Filling oil	/	silicon oil		
Media compatibility	/	liquids and gases compatible with 316/316L stainless steel		
Response time (10% to 90%fs)	ms	<pre>< 1</pre>		
Life time	cycles	10x10 ⁶		
Net weight	gram	~100		

Notes:

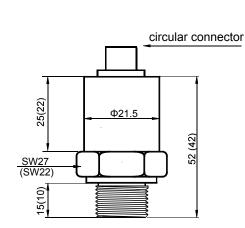
- (*). Testing condition:Excitation=1.5 mA, Temp.=25 $^{\circ}$ C.
- [1]. For customized pressure ranges, please consult Proza.
- [2]. "fs" refers to full scale pressure or rated pressure.
- [3]. Accuracy = sqrt (non-linearity²+ hysteresis²+ repeatability²).

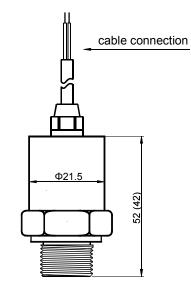
Proza Electronic Technology

website: www.prozasensor.com email: sales@prozasensor.com Tel.: +86-029 89117729 Fax: +86-029 89117729



Dimensions





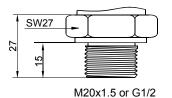
Electrical Connection

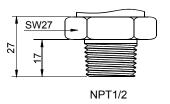


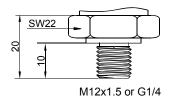
circular connector

pin	color	4-wires		
1	red	excitation+		
2	blue	excitation-		
3	yellow	signal+		
4	white	signal-		

Pressure Connection







Notes: - All dimensions are in mm.

- If other types of interfaces are on request, consult us.

Proza Electronic Technology

website: www.prozasensor.com email: sales@prozasensor.com Tel.: +86-029 89117729 Fax: +86-029 89117729



Ordering Guide

		model: silicon	piezore	esistive pres	sure transducer PZP3	00	
		pressure ranges					
		(-1) = -1~0	bar	G	25 = 0~25 bar	G, A, S	
		0.2 = 0~0.2	bar	G	40 = 0~40 bar	G	
		0.35 = 0~0.35	bar	G	60 = 0~60 bar	S	
		0.7 = 0~0.7	bar	G	100 = 0~100 bar	S	
		1 = 0~1	bar	G, A	160 = 0~160 bar	S	
		2.5 = 0~2.5	bar	G, A	250 = 0~250 bar	S	
		4 = 0~4	bar	G, A	400 = 0~400 bar	S	
		6 = 0~6	bar	G, A	600 = 0~600 bar	S	
		10 = 0~10	bar	G, A, S	Customized ranges	are	
		16 = 0~16	bar	G, A, S	available.		
		pressure types					
		G = Gauge					
		A = Absolute					
		S = Sealed G	auge				
		_		accu	racy		
		0.25 = 0.25 %	fs(stan	dard)			
		0.5 = 0.5 %fs					
[excitation C = 1.5 mA (standard)					
		V = 10 Vdc					
		pressure connection					
		M20x1.5, G1/2, G1/4, NPT1/2, NPT1/4 or other					
		electrical connection					
		circular conne	ctor, ca	able connec	tion (1m)		
		customized parameter					
		"(*)" is necess	ary only	y for any cu	stomized parameter.		
V-G1/2-connect	(4)						

Examples of Ordering Code

PZP300-30-G-0.25-V-G1/2-cable-(length=3m*)

(*): Customized cable length = 10 m.

Order Note

Please pay attention to protect the diaphragm.Do not touch the diaphragm by finger and other hard objects, or it may be damaged.

Proza Electronic Technology

website: www.prozasensor.com email: sales@prozasensor.com Tel.: +86-029 89117729 Fax: +86-029 89117729