

SPT21C1 Ceramic Pressure Transmitter

Features

- Reliable performance and easy to use
- Short circuit protection and reverse polarity protection
- Low cost
- Small and compact size



Applications

- Petroleum and petrochemicals
- Chemicals
- Food and pharmaceuticals
- Environmental protection and water treatment
- Medical equipment

Introduction

The SPT21C1 is a ceramic pressure transmitter made with a highly stable and reliable pressure sensor and a dedicated circuit board. Its core advantages include corrosion resistance, overload resistance, hygiene and non-toxicity, high cost-effectiveness, and wide applicability.

Specification

Pressure range	-0.1...0~0.2...20MPa
Over pressure	≤2 times full scale pressure
Pressure type	Gauge
Accuracy	±0.5%FS、±1%FS
Long term stability	≤±0.3%FS/year
Offset thermal drift	±0.02%FS/°C
Span thermal drift	±0.02%FS/°C
Application temp.	-30~80°C
Storage temp.	-40~125°C
Process connection	G1/4(M)
Housing protection	IP65

Output Signals

2-wire current	4~20mA
3-wire current	4~20mA (default)
	0~20mA

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3-wire voltage	DC 0~10V
	DC 0~5V
	DC 1~5V
	DC 0.5~4.5V
	DC 0.5~2.5V
	DC 0.1~2.1V
3-wirevoltage ratiometric	DC 0.5~4.5V

Power Supply

Output signals	Power supply	
	Default	Optional
4~20mA	DC 11~28V	DC 8~32V
DC 0~10V	DC 11~28V	DC 11~32V
DC 0~5V	DC 11~28V	DC 11~32V
DC 1~5V	DC 11~28V	DC 11~32V
DC 0.5~4.5V	DC 5V±0.1V	DC 8~32V
DC 0.5~2.5V	DC 5V±0.1V	DC 8~32V、DC3.3V
DC 0.1~2.1V	DC 5V±0.1V	DC 8~32V、DC3.3V
DC 0.5~4.5V(ratiometric)	DC 5V±0.5V	/

Load Resistance(Ω)

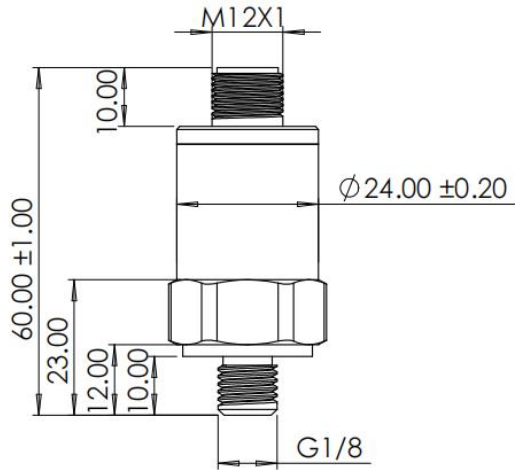
Current outout	$\leq (\text{power supply}-11) / 0.02\Omega$
Voltage output	$\geq 10k$

Material

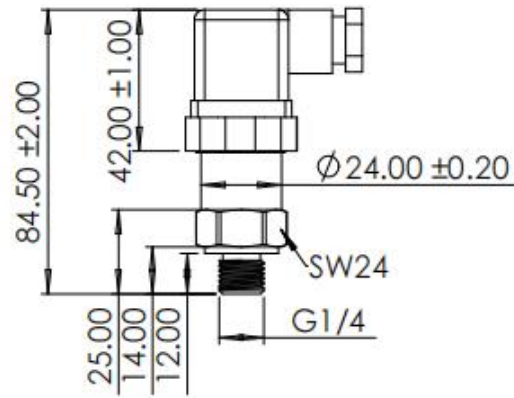
Housing	SS304/316
Pressure port	SS304
Diaphragm	Ceramics
Sealing gasket	NBR (default) / Viton

Outline Dimension (unit: mm)

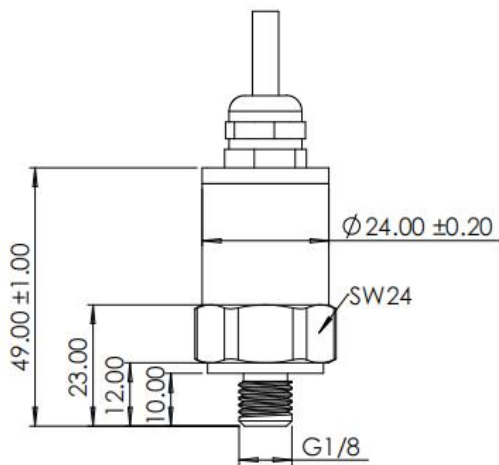
M12 4-pole plug-in type



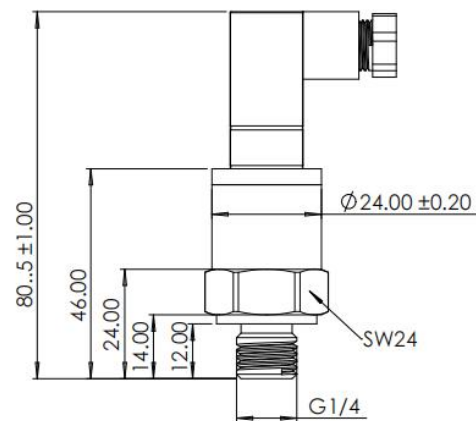
Hirschmann(18 mm) 4-pole plug-in type



Cable exit type



Hirschmann(9.4 mm) 4-pole plug-in type



Electrical Connection

Hirschmann			
		2-wire	3-wire
	U _B	1	1
	0V	2	2
	S+	b-	3

Air conduit cable			
		2-wire	3-wire
	U _B	Red	Red
	0V	Black	Black
	S+	—	Yellow

M12 plug			
		2-wire	3-wire
	U _B	1	1

Description:

U_B : Power +

0V : Power -

S+ : Analog output

0V	2	2
S+	—	

Order Information

SPT21C1	Ceramic Pressure Transmitter		
	Range[0~X]MPa	-0.1...0~0.2...20MPa	
		Code	Output signal
		E	4~20mADC
		J	0~5VDC
		V	0~10VDC
		V1	0.5~4.5VDC
		Code	other
		B1	Hirschmann(18 mm)
		B4	Hirschmann(9.4 mm)
		B2	Cable exit type
		B3	M12 plug
		C2	G1/4(M)
SPT21C1	[0~1MPa]	E	B2C2 the whole spec

Ordering Notes

1. When selecting a model, please ensure that the material of the medium being tested is compatible with the material of the medium being contacted;
2. If you have any special requirements, please consult with our company.

Contact

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