

SPT21PC3F G1/2 Flush Diaphragm Pressure Transmitter - Front Seal

Features

- Flush diaphragm design
- Front seal
- Compact size and lightweight
- Available in gauge pressure, absolute pressure, and sealed gauge pressure variants
- High-precision measurement
- Strong corrosion resistance
- Supports range conversion via our company's calibrator



Applications

- Chemical industry
- Pharmaceutical industry
- Food and Beverage Industry
- Water treatment
- Oil and gas
- Laboratories and scientific research

Introduction

The SPT21PC3F G1/2 flush diaphragm pressure transmitter is a high-performance sensor specifically designed for measuring liquid or gas pressure. It is particularly suitable for viscous, corrosive, or particle-containing media. Not only does it feature the advantages of flush diaphragm design, but it also incorporates front seal, significantly enhancing the device's reliability and service life in harsh environments.

Specification

Pressure range	-1...0~0.35...350bar
Over pressure	≤1.5 times FS
Pressure type	Gauge/absolute/sealed gauge optional
Accuracy	see Accuracy definition
Long term stability	≤±0.3%FS/year
Offset thermal drift	0.05%FS/°C
Span thermal drift	0.03%FS/°C
Compensated temp.	0~50°C
Application temp.	-30~80°C
Storage temp.	-40~120°C

Housing protection	IP65 (default) / IP67/68 (customized)
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Accuracy

(Test condition: Environment temperature: 25±5℃ Relative humidity: 45%~75%)

Pressure Type	Range	Accuracy
Gauge (G)	0bar~0.1bar<X<0.35bar	±1%FS
	0.35bar≤X≤350bar	±0.5%FS（default）
		±0.25%FS
	-1bar~ -0.35bar<X≤2bar	±0.5%FS
	-1bar~ -0.35bar<X≤2bar~350bar	±0.25%FS
Absolute (A)	0bar~0.7bar<X≤1bar	±1%FS
	1bar<X≤10bar	±0.5%FS
	10bar<X≤350bar	±0.25%FS
		±0.5%FS（default）
Sealed gauge (S)	35bar<X≤350bar	±0.5%FS

Output Signals

2-wire current	4~20mA
3-wire current	4~20mA (default)
	0~20mA
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-wire proportional voltage	DC 0.5~4.5V
RS485	

For other output requirements, please contact us.

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 (proportional output)	DC 5V±0.5V	/
RS485	DC 11~28V	DC 5V±0.1V

Load Resistance(Ω)

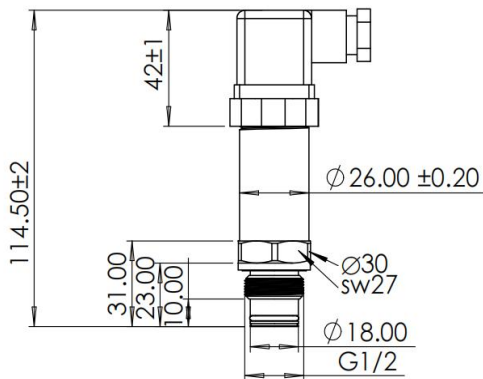
Current outout	≤ (power supply-11V) /0.02A
Voltage output	≥10k

Material

Housing	SS304/SS316L
Pressure interface	SS304/SS316L/Hastelloy C/Titanium Alloy
Diaphragm	SS316L/Tantalum/Titanate
Sealing gasket	NBR (default) / Viton
Plug Housing	Glass Fiber Nylon
Cable	Polyethylene / Polyurethane / Polyvinyl Chloride / Teflon

Outline Dimension (unit: mm)

Hirschmann 4-pole plug-in type



Please contact us if you request anything else.

Electrical Connection

Hirschmann			
		2-wire	3-wire
	UB	1	1
	0V	2	2
	S+	-	3

Description
 UB : Power +
 0V : Power -
 S+ : Analog output

Optional accessories

Name	Shape	Description
STS01 calibrator		Power supply : 220VAC Features : 4.5-inch LCD screen, touch buttons Functions : testing, calibration, zeroing, range migration, unit conversion   Operating Instructions Operating Video
SPT-LCD display		Display : 4 + 1 / 2 digit display Input : 2-wire 4 ~ 20mA Output : 2-wire 4 ~ 20mA Optional with control function
SPT-LED display		Display : 4 + 1 / 2 digit display Input : 2-wire 4 ~ 20mA Output : 2-wire 4 ~ 20mA Optional with control function
SD01 loop powered display		Display range -1999~9999 Input: 2-wire 4~20mA Output: 2-wire 4~20mA
M12 plug-in cable		thread M12×0.75

Order Information

SPT21PC3F G1/2 Flush Diaphragm Pressure Transmitter -Front Seal			
Range		-1...0~0.35...350bar	
[0~X]bar		X: the actual measured pressure	
Code		Output signal	

[illegible]

1. When ' 1 ' in the selection table selects B1 / B3, if you need to lead out the cable, please note in the order ;
- 2, As for product accuracy, see page 2 ' accuracy ' ;
3. Product sealing ring material default for fluorine rubber, the minimum use temperature is -20 °C, if the product temperature is < -20 °C, need to be noted in the order temperature range ; other sealing schemes can be used on demand, such as ethylene propylene diene rubber sealing ring, the minimum use temperature is -40 °C ;
- 4, When ordering 5V DC/3.3V DC power products with cable connection, the cable length should be less than 10m;
- 5, If accessories is needed, please contact us and specify it in the order;
- 6, If metrology verification certificate is needed or there are other requirements, please contact us and specify it in the order.

Contact

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