

SPT21Z High Accuracy Pressure Transmitter

Features

- 4~20mADC 2-wire current output
- Digital compensation and non-linearity correction technicis
- -10℃~70℃ digital wider temperature compensation
- RS485 communication interface
- Netting available
- Full stainless-steel construction, compact size, light weight
- Special requirement available



Introduction

SPT21Z pressure transmitter is the highly accurate and stable intelligent pressure transmitter. It uses digital temperature compensation, non-linearity correction technics and the most advanced transmitter production technique, the whole product has compact size, high accuracy, light weight and wider pressure range, can be used for flow pressure precise measurement. The product will instead the 2-wire working 4~20mADC output analogous signal.

Specification

Accuracy	$\pm 0.05\%FS$. $\pm 0.1\%FS$. $\pm 0.25\%FS$
Range	-1...0~0.1...1000bar
Stability	$\leq \pm 0.2\%FS/year$
Compensated temp.	-10~70℃
Operation/storage temp.	-30~80℃
Power supply	10~28VDC
Output	4~20mADC. 0-5V. RS485
Load	(U-10V)/0.02A (Ω) (4~20)mADC output, RS485 bus line could connect with 99 transmitters
Electric connection	DIN43650 4-pin plug (RS485 socket inside)
	7-pin plug (for RS485 interface output at local place)
	$\Phi 7.2mm$ shielding cable
Insulation	100M Ω /50V
Shock	20g, (20~5000)Hz
Impact	20g, 11ms
Protection	IP65 (B1, B2) IP63 (B3)
Weight	~160g

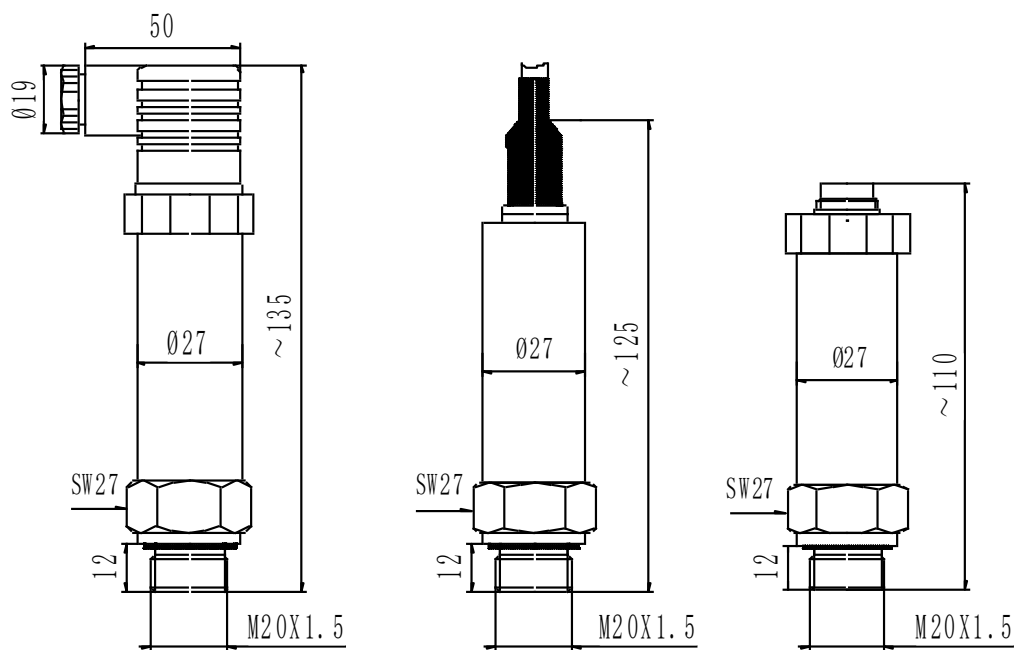
1 Total accuracy: including linearity, hysteresis, repeatability and thermal error.

2 For special temperature requirement, please feel free to contact our company.

Construction Material

Housing	SS 1Cr18Ni9Ti
Diaphragm	SS316L
O-ring	Viton

Outline Construction (Unit: mm)



DIN43650 plug version

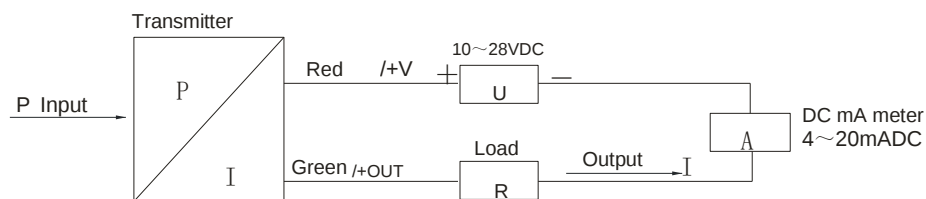
Cable version (IP68)

M12 connector version

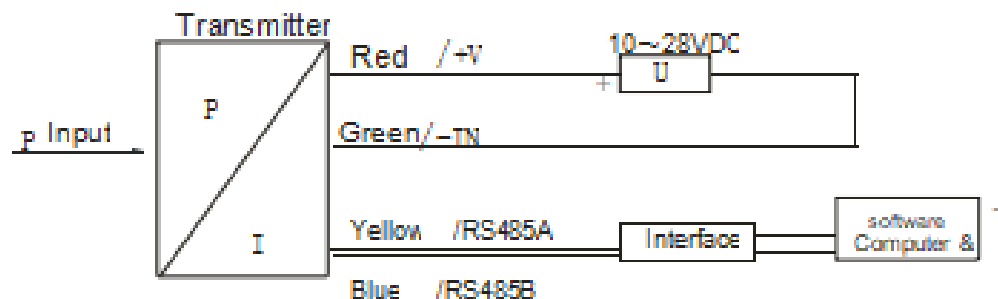
Electric Connection

Function	4-pin plug	Wire color
+V	1	Red
OUT/GND	2	Green
RS485A	3	Yellow
RS485B	4	Blue

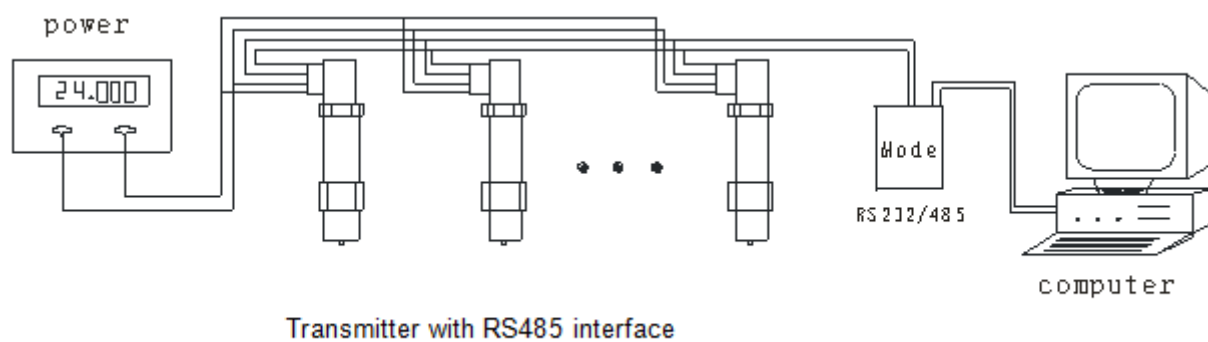
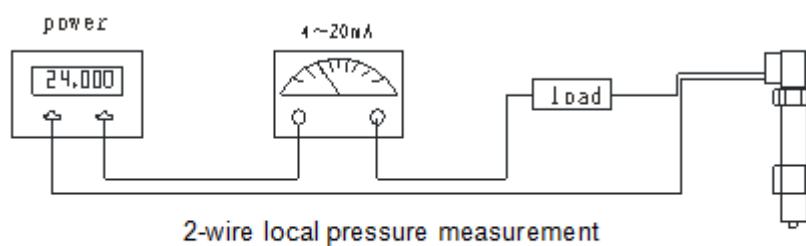
a). Electric Connection for transmitter with 4~20mADC output



b). Electric connection for transmitter with RS485 interface



Local Application



Order Guide

SPT21Z		High Accuracy Pressure Transmitter											
		Range		-1…0~0.1…1000bar									
		[0~X]bar		the actual measured range									
				Code	Output signal								
				E	4~20mADC								
				R4	4-20mA with RS485 communication interface								
				H	4-20mA+ HART								
				Code	Construction material								
					Diaphragm		Pressure port		Housing				
					22		SS 316L		SS				
					24		SS 316L		SS 316L				
					35		Tantalum		Hastelloy C				
						Code	Others						
						B1	DIN43650 connector						
						B2	Cable connection, default cable length: 1.5m						
						i	Intrinsic Safety type						
						PC1	Flush diaphragm, M20*1.5 male thread						
						PC3	Flush diaphragm, G1/2 male thread						
						C1	M20*1.5 male thread						
						C2	G1/4 male thread						
						C3	G1/2 male thread						
				1	±0.05%FS								
				2	±0.1%FS								
				3	±0.25%FS								
				G	Gauge								
				S	Sealed gauge								
				A	Absolute								
SPT21Z		[0~100]bar	R4	22	B1C23G	the whole spec							