

INTRODUCTION

The 171SPT Smart pressure transmitter utilizes high-performance mono crystalline silicon pressure sensing technology, ensuring accuracy and reliability in pressure measurement. It is capable of measuring both pressure and current. The transmitter has an over pressure capability of 1.5 times the range, providing added protection in case of pressure spikes. Additionally, it can withstand burst pressures up to 2 times the range. Configuration of the transmitter can be done conveniently via a HART Server. The 171SPT is IP65 protected, making it resistant to dust and water ingress, ensuring its durability in various environments.

VERSIONS

Without Display



Sealed Cable



SPECIFICATIONS

Sr.No.	Category	Parameter Name	Parameter Description	
1	General	Typical Application	Water	
2	Specifications	Type	1) Gauge type 2) Absolute Type	
3		Range	1) 0 to 0.25 bar 2) 0 to 10 bar 3) 0 to 16 bar 4) 0 to 20 bar 5) 0 to 30 bar	
4		Measurement of Medium	Liquid Water	
5		Display Version	Without Display	
6		Accuracy	1) $\pm 0.5\%$ of FS (Default Accuracy) 2) $\pm 0.25\%$ of FS 3) $\pm 0.1\%$ of FS	
7		Power Supply	2 Wire 24 VDC @600 Ω	
8		Analog Output	1) 2 Wire, 4-20mA @600 Ω 2) 2 Wire, 4-20mA + HART Communication @250 Ω 3) 4 Wire, RS 485	
9		HART Load	230 to 470 Ω	
10		Communication O/P	HART (Optional)	
11		Over Pressure Range	1.5 times over the Range	
12		Electrical Connection	DN43650 Connector Or Sealed Cable	
13		Construction	Transmitter Housing	SS316L
14			Diaphragm	Stainless steel SS316L
15	Process Connection		1) G1/4" (M) in Stainless steel SS316L 2) G1/2" (M) Stainless steel SS316L 3) M20 X 1.5 (M) 4) G1/2 Flush membrane	
16	Sealing Gasket		Viton	
17	Pressure Port		SS316L	
18	Plug Housing		Plastic	
19	Cable Details (For Sealed Type)	Housing Protection	IP 65 (For DIN43650 Connector) & IP68 (For Sealed Cable)	
20		Cable Diameter	~7mm	
21		Cable locking	same with level transmitter	
22		Air venting	Air vent tube in cable	
23	Environmental	Operating Temp.	0 to 60 $^{\circ}$ C	

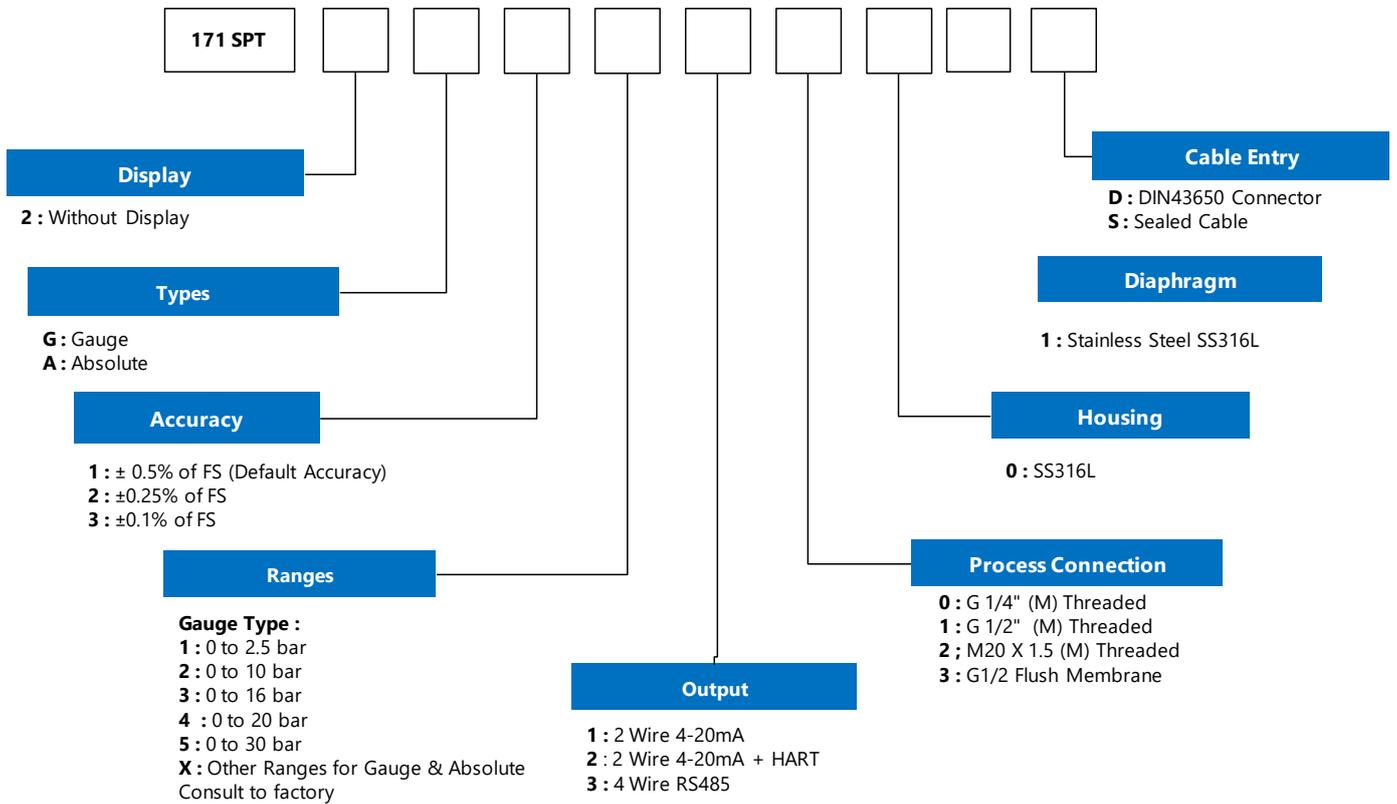
FEATURES

- Reliable performance, easy Application
- Short Protection and reverse polarity protection
- Offset and full scale adjustable
- Configuration via HART Server

APPLICATIONS

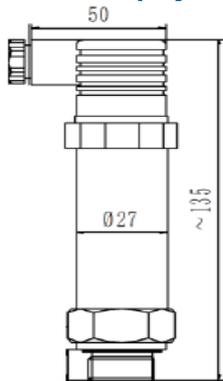
One of the key applications of the pressure transmitter is in water systems, where it plays a crucial role in measuring and controlling water pressure for efficient operation and management

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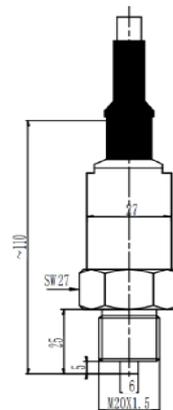


MECHANICAL DIMENSIONS

1) Without Display



2) Sealed Cable



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