

2-WIRE PRESSURE TRANSMITTER BPT108 (with or without Indication)

- 0 0.016 bar (0-1,6kpA) to -1/0 600 bar
- 0.1% inaccuracy and non-linearity
- Automatic temperature compensation
- 4 20mA output
- True non-interactive zero and span
- Local zero and span adjustment
- LCD or LED indicator
- Hirschmann connector DIN 43650
- AISI 316L or Hasteloy
- Capable in handling most process fluids
- Small and light weight
- Weather-proof housing IP65
- Intrinsically safe



BASI Model BPT108 Pressure Transmitter uses as its measuring principle, the well known and field proven technique of sensing a crystal silicon chip and a diaphragm micromachined into the chip, enhanced by surface mount electronics. Designed for process control applications, these 2-wire transmitters generate a 4-20mA signal proportional or characterized to the applied pressure. This signal can be transmitted over a pair of twisted wires through long distances (limited only by the wire resistance and load). Remarkable features of the transmitters are its 0.1% high accuracy and non-linearity and light weight.

The pressures are directly applied to the isolating diaphragm that provide isolation and resistance against process fluid corrosion. The electronic circuit is extremely versatile and accurate.

Transmitter performance is improved by continuous monitoring of the sensor temperature and corresponding corrections. A local display permits easy reading.



Process fluid : Liquid, gas or vapor **Measuring range**: 0 - 0.016 to -1 - 0 - 600 bar

Hazardous area: IP65 weather-proof, intrinsically safe

EExiaT6 to EN 50.014

Zero and span : Non-interactive local adjustment

Ambient.temp : -20 to 80°C

Process.temp : -20 till 80/130°C, -65 till 150°C, 0 till 200°C,

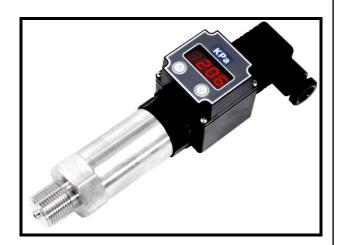
0 till 350°C

Storage.temp : -40 to 85°C

Turn-on time : Performs within specifications in less than

120 milliseconds after power is applied.

Overpressure : 200% Humidity limits : 0 - 100% RH Configuration : Factory set











PERFORMANCE

EMC : EN 50081-1, EN 50082-2,

89/336/EEC

INSTALLATION

Process connection

Electrical connection: Hirschmann DIN 43650 IP65 or Cable

(1 m teflon cable IP67 standard): G1/4", G1/2", 1/4" NPT, 1/2" NPT or

Wetted parts : AISI 316

Housing : Stainless steel AISI 304
Protection class : IP65 (cable IP67)
Weight : 80 g (High temp 160g)
Mounting : Directly supported by pig

 Directly supported by piping or optionally with mounting bracket for 2" pipes or with direct or remote seals.





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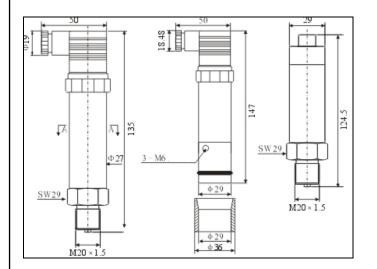
Two-Wire Pressure Transmitter

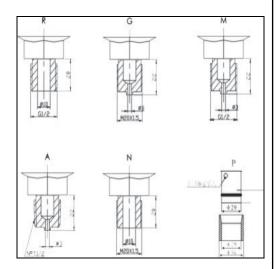
BPT108

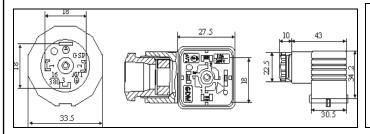
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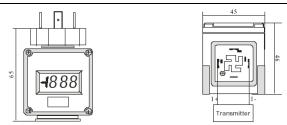


MECHANICAL SPECIFICATIONS











ORDER INFORMATION

BASI BPT108 Series Pressure Transmitter

Model												Illustration			
BPT108															
Material of diaphragm	А												A1: standard type		
												Diffuser silicon	A2: ultra stability type		
													A3: Flush mount		
													A4: corrosion-proof type		
	В											Blue jewel	B1: (-65 to 150°C)		
													B2: (10 to 200°C)		
													B3: (10 to 350°C)		
Explosion-		S										Standard ty	ype (no explosion proof)		
proof		_										Intrinsic safety ExiaIICT6			
Material of			1									316L stainless steel			
process			2									304 stainless steel			
connection			3									1Gr18Ni9Ti stainless steel Hasteloy C			
			4												
Type of process connection				R								Outer thread G1/2 (holeφ10mm)			
				G								Outer thread M20 (hole φ 3mm)			
				М								Outer thread G1/2 (holeφ3mm)			
				Α								Outer thread G1/2-NPT (holeφ3mm)			
				Z								Outer thread M20 (hole 10mm) Caliper jacket type (range as ≤1Mpa)			
				Р											
				Υ								Special requirement			
Material of seal					1F							Fluorine rubber			
					2F							Nitrile rubber			
					4F							Full welded sealing			
Output						2						4-20 mA DC 2-wire system			
signal						3						(4—20) mA or (1—5) V 3-wire system			
		A C									No current indicate				
											LCD digital range display LED digital range display				
Display	D														
type	E									0~100% display LCD digit					
	F										0~100% display LED digit				
										Special requirement					
Accuracy	1									0.1 (note)					
	2							2		0.2					
	5									0.5					
Range												See the st	andard range table		
Pressure	G A B										Gauge pressure				
											Absolute pressure				
											Sealed gauge pressure				
Electric											J	Connect w	ith aviation insert		
connection											JI	Hirschman			

Note: 0.1-grade accuracy has to select ultra-stable type diaphragm material of diffuser silicon (A2).

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