



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



GENERAL DESCRIPTIONS

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 micro-machined 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.



TECHNICAL SPECIFICATIONS

Functional Specifications

- Process fluid** : Liquid, gas or vapor
Measuring range: 0 – 0,016 to –1 – 0 – 600 bar
Output signal : Two-wire, 4-20 mA
Power supply : 12 - 36 VDC
Load limitation : 0 - 600Ω for 24VDC
Indicator : LED or LCD indicator
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

- Accuracy** : ±0.1%
Repeatability error : ±0.05%
Mounting : No restriction
EMC : EN 50081-1, EN 50082-2,
 89/336/EEC

INSTALLATION

- Electrical connection** : Hirschmann DIN 43650 IP65 or Cable
 (1 m teflon cable IP67 standard)
Process connection : 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 piping or
 optionally with mounting bracket for 2"
 pipes or with direct or remote seals.



BASI Instrument AB
 P.O. Box 53

Tel: +46 40-880 09
 SE-275 06 VOLLSJÖ...SWEDEN

Fax: +46 40-92 98 77
 E-mail: info@basi.se

Two-Wire Pressure Transmitter

BPT108

No. DS 16:2-E Issue: 5 18/10/18



ORDER INFORMATION

BASI BPT108 Series Pressure Transmitter

Model											Illustration		
BPT108	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Material of diaphragm	A											Diffuser silicon	A1: standard type
													A2: ultra stability type
													A3: Flush mount
											A4: corrosion-proof type		
	B											Blue jewel	B1: (-65 to 150°C)
													B2: (10 to 200°C)
											B3: (10 to 350°C)		
Explosion-proof		S											Standard type (no explosion proof)
		I											Intrinsic safety ExialICT6
Material of process connection			1										316L stainless steel
			2										304 stainless steel
			3										1Gr18Ni9Ti stainless steel
			4										Hasteloy C
Type of process connection				R									Outer thread G1/2 (holeφ10mm)
				G									Outer thread M20 (hole φ 3mm)
				M									Outer thread G1/2 (holeφ3mm)
				A									Outer thread G1/2-NPT (holeφ3mm)
				N									Outer thread M20 (hole 10mm)
				P									Caliper jacket type (range as ≤1Mpa)
				Y									Special requirement
Material of seal				1F									Fluorine rubber
				2F									Nitrile rubber
				4F									Full welded sealing
Output signal						2							4-20 mA DC 2-wire system
						3							(4—20) mA or (1—5) V 3-wire system
Display type							A						No current indicate
							C						LCD digital range display
							D						LED digital range display
							E						0~100% display LCD digit
							F						0~100% display LED digit
							Y						Special requirement
Accuracy							1						0.1 (note)
							2						0.2
							5						0.5
Range									<input type="checkbox"/>				See the standard range table
Pressure											G		Gauge pressure
											A		Absolute pressure
											B		Sealed gauge pressure
Electric connection												J	Connect with aviation insert
												JI	Hirschmann contact

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



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