



PRESSURE TRANSMITTER

GENERAL FEATURES

Application

GPT series pressure transmitters are devices that measure the relative and absolute pressure of liquids, gases and steam in many industries such as chemical, pharmaceutical, food industries and water distribution networks.

Design

The transmitter consists of a ceramic sensor placed in a stainless steel body or a piezoresistive measuring cell and electronic card on a stainless steel 316L body. The sensor design ensures that reliability is maintained in temperature changes and overload.

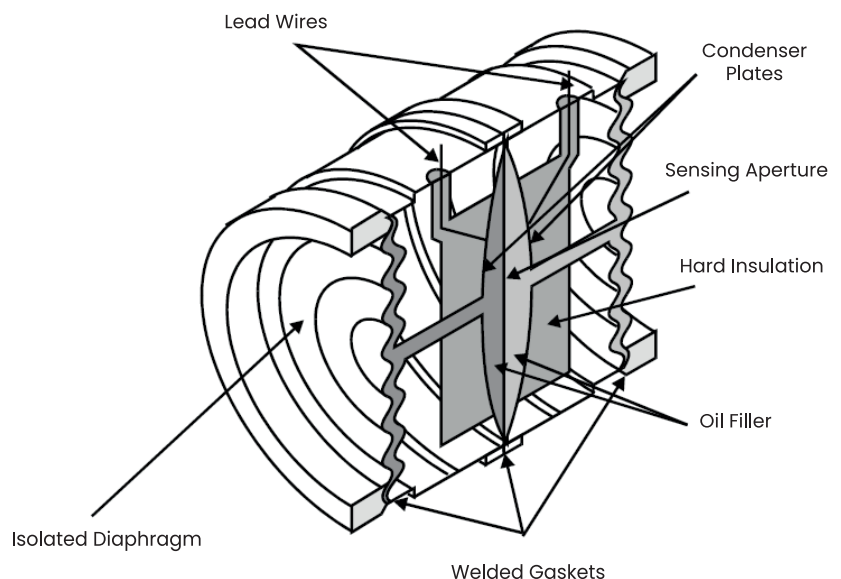
The use of a stainless steel 316L diaphragm or ceramic sensor ensures high linearity over the entire measuring range, while minimizing the hysteresis effect.

It is an easy-to-install pressure transmitter that can be used as a process connection stainless steel 1/2 inch threaded and flanged connection.

The way it works

Stainless steel 316L diaphragm and ceramic sensor sense the physical deviations of the elements under pressure. Mechanical deformation is transmitted by transforming an electrical signal through the diaphragm and the ceramic sensor with a resistance bridge. An amplifier converts the cell's output

voltage into 4–20mA, which is the transmitter's output current signal. The Pressure Transmitter is powered by an external stable power supply. Reverse polarity and high supply voltage are avoided by protection diodes at the input. The device is also not affected by electromagnetic noise thanks to the EMC protective components inside.



PRESSURE TRANSMITTER

BTIO-S01



BTIO-S01	
Pressure Range (bar)	Min. -1/Max. 2000
Overload (bar)	FSx2
Technical Features	
Working Principle	Piezoresistive Measuring Cell
Inputs	
Measurement Variables	Relative and Absolute Pressure
Measuring Range	Max. 2000 bar
Outputs	
Current Output Load Precision	4-20 mA/4-20 mA+Hart/Opsiyonel 0-10V, (U-10V) 0,02A
Accuracy	Full Scale \leq %0,2
Zero Point	\pm 0,2 mV/V
Temperature Effect	
Zero	\pm 0,02 % TS/K
Operating Conditions	
Operating Temperature	- 40 °C/135 °C
Ambient Temperature	- 25 °C/85 °C
Protection Class	IP65
Power Supply	
Power Supply Voltage	10...36 VDC
Materials	
Sensor	Stainless Steel 316L, Ceramic
Process Connection	Stainless Steel 316L, Hastelloy C, Other materials
O-ring	Viton
Outer Box	Stainless Steel 316L
Terminal	Plastic
Process Connections	G 1/4", G1/2", G1/2" Flush, Clamp, Flange ve Etc.
Size and Weigth	
Size	\varnothing 27x112 mm
Weigth	Approximately 0,25 kg

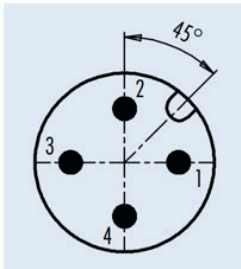
PRESSURE TRANSMITTER

BT10-PS01

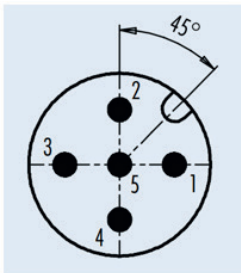


BT10-PS01	
Pressure Range (bar)	Min. -1/Max. 40
Overload (bar)	FSx2
Technical Features	
Working Principle	Piezoresistive Measuring Cell
Inputs	
Measurement Variables	Relative and Absolute Pressure
Measuring Range	Max. 40 bar
Outputs	
Current Output Load Precision	4-20 mA/4-20 mA+Hart/Opsiyonel 0-10V, (U-10V) 0,02A
Accuracy	Full Scale ≤ %0,2
Zero Point	±0,2 mV/V
Temperature Effect	
Zero	±0,02 % TS/K
Operating Conditions	
Operating Temperature	- 40 °C/135 °C
Ambient Temperature	- 25 °C/85 °C
Protection Class	IP65
Power Supply	
Power Supply Voltage	10...36 VDC
Materials	
Sensor	Stainless Steel 316L, Ceramic
Process Connection	Stainless Steel 316L, Hastelloy C, Other materials
O-ring	Viton
Outer Box	Stainless Steel 316L
Terminal	Plastic
Process Connections	G 1/4", G1/2"
Size and Weigth	
Size	Ø27x112 mm
Weigth	Approximately 0,35 kg

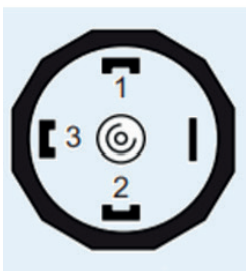
PRESSURE TRANSMITTER



Circular Connector M12 4 Pin			
	2 Wire Output mA	3 Wire Output mA	0-10V
V +	1	1	1
V -	2	2	2
Signal Output	-	3	3



Circular Connector M12 5 Pin			
	2 Wire Output mA	3 Wire Output mA	0-10V
V +	1	1	1
V -	2	2	2
Signal Output	-	3	3



DIN43650 Connector			
	2 Wire Output mA	3 Wire Output mA	0-10V
V +	1	1	1
V -	2	2	2
Signal Output	-	3	3

PRESSURE TRANSMITTER

BT10-S02&S03



BT10-S02&S03	
Pressure Range (bar)	Min. -1/Max. 2000
Overload (bar)	FSx2
Technical Features	
Working Principle	Piezoresistive Measuring Cell
Inputs	
Measurement Variables	Relative and Absolute Pressure
Measuring Range	Max. 2000 bar
Outputs	
Current Output Load Precision	4-20 mA/ 4-20 mA+Hart/ Opsiyonel 0-10V, (U-10V) 0,02A
Accuracy	Full Scale \leq %0,2
Zero Point	\pm 0,2 mV/V
Temperature Effect	
Zero	\pm 0,02 % TS/K
Operating Conditions	
Operating Temperature	- 40°C/135 °C
Ambient Temperature	- 25°C/85 °C
Protection Class	IP65
Power Supply	
Power Supply Voltage	10...36 VDC
Materials	
Sensor	Stainless Steel 316L, Ceramic
Process Connection	Stainless Steel 316L, Hastelloy C, Other materials
O-ring	Viton
Outer Box	Stainless Steel 316L
Terminal	Plastic
Process Connections	G 1/4", G1/2", G1/2" Flush, Clamp, Flange ve Etc.
Size and Weigth	
Size	Ø27x112 mm
Weigth	Approximately 0,25 kg
Not	
P03	Has Alarm Output

PRESSURE TRANSMITTER

BT10-S04 & S05



BT10-S04 & S05	
Pressure Range (bar)	Min. -1/Max. 2000
Overload (bar)	FSx2
Technical Features	
Working Principle	Piezoresistive Measuring Cell
Inputs	
Measurement Variables	Relative and Absolute Pressure
Measuring Range	Max. 2000 bar
Outputs	
Current Output Load Precision	4-20 mA/4-20 mA+Hart/Opsiyonel 0-10V, (U-10V) 0,02A
Accuracy	Full Scale \leq %0,2
Zero Point	\pm 0,2 mV/V
Temperature Effect	
Zero	\pm 0,02 % TS/K
Operating Conditions	
Operating Temperature	- 40°C/135 °C
Ambient Temperature	- 25°C/85 °C
Protection Class (P04 / P05)	IP65 / IP67
Power Supply	
Power Supply Voltage	10...36 VDC
Materials	
Sensor	Stainless Steel 316L, Ceramic
Process Connection	Stainless Steel 316L, Hastelloy C, Other materials
O-ring	Viton
Outer Box	Stainless Steel 316L
Terminal	Plastic
Process Connections	G 1/4", G1/2", G1/2" Flush, Clamp, Flange ve Etc.
Size and Weigth	
Size	Ø27x112 mm
Weigth	Approximately 0,25 kg

PRESSURE TRANSMITTER

BT10-S07 & S08



BT10-S07 & S08	
Pressure Range (bar)	Min. -1/Max. 2000
Overload (bar)	FSx2
Technical Features	
Working Principle	Piezoresistive Measuring Cell
Inputs	
Measurement Variables	Relative and Absolute Pressure
Measuring Range	Max. 2000 bar
Outputs	
Current Output Load Precision	4-20 mA/4-20 mA+Hart/Opsiyonel 0-10V, (U-10V) 0,02A
Accuracy	Full Scale \leq %0,2
Zero Point	\pm 0,2 mV/V
Temperature Effect	
Zero	\pm 0,02 % TS/K
Operating Conditions	
Operating Temperature	- 40°C/135 °C
Ambient Temperature	- 25°C/85 °C
Protection Class (P07 / P08)	IP67
Power Supply	
Power Supply Voltage	10...36 VDC
Materials	
Sensor	Stainless Steel 316L, Ceramic
Process Connection	Stainless Steel 316L, Hastelloy C, Other materials
O-ring	Viton
Outer Box	Aluminum
Terminal	Electrical connection m20x1,5
Process Connections	G 1/4", G1/2", G1/2" Flush, Clamp, Flange ve Etc.
Size and Weigth	
Size	Ø27x112 mm
Weigth	Approximately 0,25 kg

PRESSURE TRANSMITTER

BT10-S09 & S10



BT10-S09 & S10	
Pressure Range (bar)	Min. -1/Max. 2000
Overload (bar)	FSx2
Technical Features	
Working Principle	Piezoresistive Measuring Cell
Inputs	
Measurement Variables	Relative and Absolute Pressure
Measuring Range	Max. 2000 bar
Outputs	
Current Output Load Precision	4-20 mA/4-20 mA+Hart/Opsiyonel 0-10V, (U-10V) 0,02A
Accuracy	Full Scale \leq %0,2
Zero Point	\pm 0,2 mV/V
Temperature Effect	
Zero	\pm 0,02 % TS/K
Operating Conditions	
Operating Temperature	- 40°C/135 °C
Ambient Temperature	- 25°C/85 °C
Protection Class	IP68
Power Supply	
Power Supply Voltage	10...36 VDC
Materials	
Sensor	Stainless Steel 316L, Ceramic
Process Connection	Stainless Steel 316L, Hastelloy C, Other materials
O-ring	Viton
Outer Box	Aluminum
Terminal	Electrical connection m20x1,5
Process Connections	G 1/4", G1/2", G1/2" Flush, Clamp, Flange ve Etc.
Size and Weigth	
Size	Ø27x112 mm
Weigth	Approximately 0,6 kg

PRESSURE TRANSMITTER

BT10-PS08



BT10-PS08	
Pressure Range (bar)	Min. -1/Max. 160
Overload (bar)	FSx2
Technical Features	
Working Principle	Piezoresistive Measuring Cell
Inputs	
Measurement Variables	Relative and Absolute Pressure
Measuring Range	Max. 2000 bar
Outputs	
Current Output Load Precision	4-20 mA/ 4-20 mA+Hart/ Opsiyonel 0-10V, (U-10V) 0,02A
Accuracy	Full Scale \leq %0,2
Zero Point	\pm 0,2 mV/V
Temperature Effect	
Zero	\pm 0,02 % TS/K
Operating Conditions	
Operating Temperature	- 40 °C/135 °C
Ambient Temperature	- 25 °C/85 °C
Protection Class	IP67, IP68
Power Supply	
Power Supply Voltage	10...36 VDC
Materials	
Sensor	Stainless Steel 316L, Ceramic
Process Connection	Stainless Steel 316L, Hastelloy C, Other materials
O-ring	Viton
Outer Box	Aluminum
Terminal	Electrical connection m20x1,5
Process Connections	G 1/4", opsiyonel ve etc.leri
Size and Weigth	
Size	Ø27x112 mm
Weigth	Approximately 0,6 kg

PRESSURE TRANSMITTER

Pressure Group Product Coding

Pressure Group Product Coding				
Product	Scale	Output	Connection	Sensor
P01	1B	0 - (4-20mA)	0 - (G1/4")	S - (Silicon)
P02	10B	1 - (4-20mA+HART)	1 - (G1/2")	C - (Ceramic)
P03	16B	2 - (0-10V)	2 - (G1")	-
P04	100MB	3 - (0.5-4.5V)	3 - (G1/2" Flush)	-
P05	-1-0B	4 - (RS485)	4 - (G1" Flush)	-
P06	-1+1B	X - (Özel)	5 - (Clamp)	-
P07	-100+100MB	-	6 - (Flange)	-
P08	-500+500MB	-	7 - (SMS Rakor)	-
P09	100CM	-	X - (Özel)	-
P10	100MM	-	-	-
-	1M	-	-	-
-	-	-	-	-
-	-	-	-	-

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BT10-S01/10B/01S
BT10-S01/-100+100M/00S

0..10 bar 4-20mA 1/2"
-100..+100m bar 4-20mA 1/4"



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