



# PT-10S & PT-30S

## Pressure Transmitter

### PRODUCT DATA SHEET



#### SPECIFICATIONS

Model Range	Metric Models		
	-100 - 0.00kPa	0.0 - 20kPa	0.0 - 2.5MPa
	-100- 100kPa	0.0 - 35kPa	0.0 - 4.0MPa
	-100- 160kPa	0.0 - 70kPa	0.0 - 6.0 MPa
	-100- 250kPa	0.0 - 100kPa	0.0 - 10.0MPa
	-100- 400kPa	0.0 - 250kPa	0.0 - 16.0MPa
	-100- 600kPa	0.0 - 400kPa	0.0 - 25.0MPa
	-0.1- 1.0MPa	0.0 - 600kPa	0.0- 40MPa
	-0.1- 2.5MPa	0.0 - 1.0MPa	0.0 - 60MPa
	0.0 - 10kPa	0.0 - 1.6MPa	0.0 - 100.0MPa
	Customized range also available on request		
Pressure Reference	Vacuum, Vented (Gauge Pressure), Absolute, and Sealed		
Burst Pressure	300% the maximum operating pressure		
Accuracy	PT-10S		PT-30S
	±0.5% Linearity		±0.1% Linearity
	±0.05% Hysteresis		±0.02% Hysteresis
	±0.05% Repeatability		±0.02% Repeatability
Calibration	Factory calibrated pressure transmitters Two Potentiometers are provided to adjust span and offset with corresponding analog values		
Analog Output	4~20mA corresponding to Temperature, ±0.01mA accuracy ±0.01mA resolution, maximum resistive load of 500Ω		
Mechanical Connection	Standard 1/4-inch male BSPP threads 27mm spanner is required for installation Other port threads and size can be provided on user request. Please refer to model selection guide		
Other Output Options	Transmitter comes with the following output options 1~5 Voltage Output RS-485 Communication		
Standard Model Number	Typical standard model number: PT-10S-B2GALCD Please obtain standard model and general price list from Sales Representative		
Temperature Compatability	Full temperature compensation throughout the range Operating temperature range of both liquid and gas up to 125°C		
Compatibility	Liquid compatibility Air, dry gas compatibility		
Wetted Materials	SS316, SS316L & Nitrile Rubber For fluid compatibility, other seals are available		
Electrical Connection	Easily replaceable Din connector		
Power Requirement	+12- 24 VDC (Maximum up to 40 VDC)		
IP Class Protection	IP67 (with PG9 gland)		



The **PT-10S** and **PT-30S** series are a general purpose pressure transmitters. This series uses piezo-resistive cell which is encapsulated in silicon oil isolating the sensor with Stainless steel diaphragm. This media isolation enhances the longevity of the transmitter while in operation. PT-10S and PT-30S Series pressure transmitters are used in various Industrial and Commercial applications where high accuracy and repeatability is required. Easy operation and sleek design is handy for confined locations. The transmitters provides both liquid and gas media compatibilities.

#### APPLICATIONS

- Chemical industry
- Pharmaceutical industry
- Food and beverage industries
- Ammonia refrigeration systems
- Ice Block factory
- HVAC systems
- Fertilizer industry
- Textile industry
- Air compressor
- Gas compressor
- Water heaters
- Boiler feed water
- Lower pressure steam



# PT-10S & PT-30S

## Pressure Transmitters

### MODEL SELECTION GUIDE



**PT - 10S - B2 G A H C D**

Accuracy	
<b>30S</b>	±0.1%
<b>10S</b>	±0.5%

Pressure Reference	
<b>V</b>	Vacuum
<b>G</b>	Vented
<b>A</b>	Absolute
<b>S</b>	Sealed

Mechanical Connection	
<b>A</b>	1/4 inch Male BSPP
<b>B</b>	1/2 inch Male BSPP
<b>C</b>	1/4 inch Female BSPP
<b>D</b>	1/2 inch Female BSPP
<b>S</b>	1.5 inch Tri-clamp
<b>E</b>	1/4 inch Male NPS
<b>F</b>	1/2 inch Male NPS
<b>G</b>	1/4 inch Female NPS
<b>H</b>	1/2 inch Female NPS
<b>I</b>	1/4 inch Male NPT
<b>J</b>	1/2 inch Male NPT
<b>K</b>	1/4 inch Female NPT
<b>L</b>	1/2 inch Female NPT
<b>O</b>	Customized Threads

Electrical Connection	
<b>D</b>	4-pin Din-Value Connector, IP65
<b>G</b>	2-wire PG7 Gland Connector, IP67

Range		
<b>V1</b>	-100 - 0.0kPa	-1.00 - 0.00 Bar
<b>V2</b>	-100 - 100kPa	-1.00 - 1.00 Bar
<b>V3</b>	-100 - 160kPa	-1.00 - 1.60 Bar
<b>V4</b>	-100 - 250kPa	-1.00 - 2.50 Bar
<b>V5</b>	-100 - 400kPa	-1.00 - 4.00 Bar
<b>V6</b>	-100 - 600kPa	-1.00 - 6.00 Bar
<b>V7</b>	-0.1 - 1.0MPa	-1.00 - 10.0 Bar
<b>V8</b>	-0.1 - 1.6MPa	-1.00 - 16.0 Bar
<b>V9</b>	-0.1 - 2.5MPa	-1.00 - 25.0 Bar
<b>A1</b>	0.0 - 10kPa	0.00 - 0.10 Bar
<b>A2</b>	0.0 - 20kPa	0.00 - 0.20 Bar
<b>A3</b>	0.0 - 35kPa	0.00 - 0.35 Bar
<b>A4</b>	0.0 - 70kPa	0.00 - 0.70 Bar
<b>B1</b>	0.0 - 100kPa	0.00 - 1.00 Bar
<b>B2</b>	0.0 - 250kPa	0.00 - 2.50 Bar
<b>B3</b>	0.0 - 400kPa	0.00 - 4.00 bar
<b>B4</b>	0.0 - 600kPa	0.00 - 6.00 Bar
<b>M1</b>	0.0 - 1.0MPa	0.00 - 10.0 Bar
<b>M2</b>	0.0 - 1.6MPa	0.00 - 16.0 Bar
<b>M3</b>	0.0 - 2.5MPa	0.00 - 25.0 Bar
<b>M4</b>	0.0 - 4.0MPa	0.00 - 40.0 Bar
<b>M5</b>	0.0 - 6.0MPa	0.00 - 60.0 Bar
<b>M6</b>	0.0 - 10.0MPa	0.00 - 100.0 Bar
<b>M7</b>	0.0 - 16.0MPa	0.00 - 160.0 Bar
<b>M8</b>	0.0 - 25.0MPa	0.00 - 250.0 Bar
<b>M9</b>	0.0 - 40.0Mpa	0.00 - 400.0 Bar
<b>M10</b>	0.0 - 60.0MPa	0.00 - 600.0 Bar
<b>M11</b>	0.0 - 100.0MPa	0.00 - 1000 Bar
<b>CP</b>	Customized	



Pressure Transmitter

Communication	
<b>C</b>	4~20mA Current Loop
<b>V</b>	1-5 Voltage Output
<b>R</b>	RS-485

Temperature Range	
<b>L</b>	-40°C - 85°C
<b>H</b>	-40°C - 125°C

### EXAMPLE

**PT - 30S - M1 G A L C D**

±0.1% Accuracy

0.00 - 10.0 Bar

Vented (Gauge Pressure)

1/4" Male BSPP

Temperature Range (-40°C - 85°C)

4 ~ 20mA current loop

4-pin Din-Value Connector, IP65

**Standard Model:** PT-10S-M1GALCD