



Pressure Transmitter Series PT01

Futuristic Technologies



www.futuristicclimatecontrols.in



+91-972-381-0294



sales@futuristicclimatecontrols.in



Futuristic PT01 Series Pressure Transmitters are ideal for OEMs with 0.5 % full scale accuracy sensors. The corrosion resistant 316L stainless steel wetted parts allow the Futuristic PT series Pressure transmitters to measure the pressure in a multitude of processes from hydraulic oils to chemicals.

PT01 pressure transmitters provide performance and economy for a wide range of OEM applications. They are especially suited to applications subject to severe mechanical shock, vibration, and electromagnetic interference. Typical applications include hydraulics and pneumatics, compressor controls, pump protection, refrigeration and air conditioning systems. The case is also made of stainless steel.

Applications :

- Compressors
- Pumping systems
- Irrigation equipment
- Hydraulic
- Industrial process monitoring



Specifications

Parameter

Service	Compatible for gases and liquids.
Pressure Measuring Range	Starting from 100 mBar G.
Output Signal	4-20 mA, Response Time: 50 ms.
Wetted Materials	Type 316L SS., Accuracy: 0.5% F.S.
Temperature Limit	0 to 200°F (-18 to 93°C).
Compensated Temperature Range	0 to 175°F (-18 to 79°C).
Power Requirements	13-30 VDC (for 4-20 mA)
Stability	1.0% FS/year typical
Current Consumption	38 mA maximum (for 4-20 mA output)
Electrical Connections	DIN-43650
Process Connection	1/4" male BSPT
Enclosure Rating	IP66
Weight	10 oz (283 g).





Electrical Connection :

Wire Length - The maximum length of wire connecting the transmitter and receiver is a function of wire size and receiver resistance. Wiring should not contribute more than 10% of the receiver resistance to total loop resistance. For extremely long runs (over 1000 feet), choose receivers with higher resistance to minimize the size and cost of connecting leads. Where wiring length is under 100 feet, wire as small as 22 AWG can be used.

An external power supply delivering 13-30 VDC with minimum current capability of 40 mA DC (per transmitter) is required to power the control loop. See Fig. A for connection of the power supply, transmitter and receiver. The range of appropriate receiver load resistance (RL) for the DC power supply voltage available is expressed by the formula:

$$R.L. \text{ Max} = \frac{V_{ps} - 13}{20 \text{ mA DC}}$$

Shielded cable is recommended for control loop wiring.

Wiring Diagram :

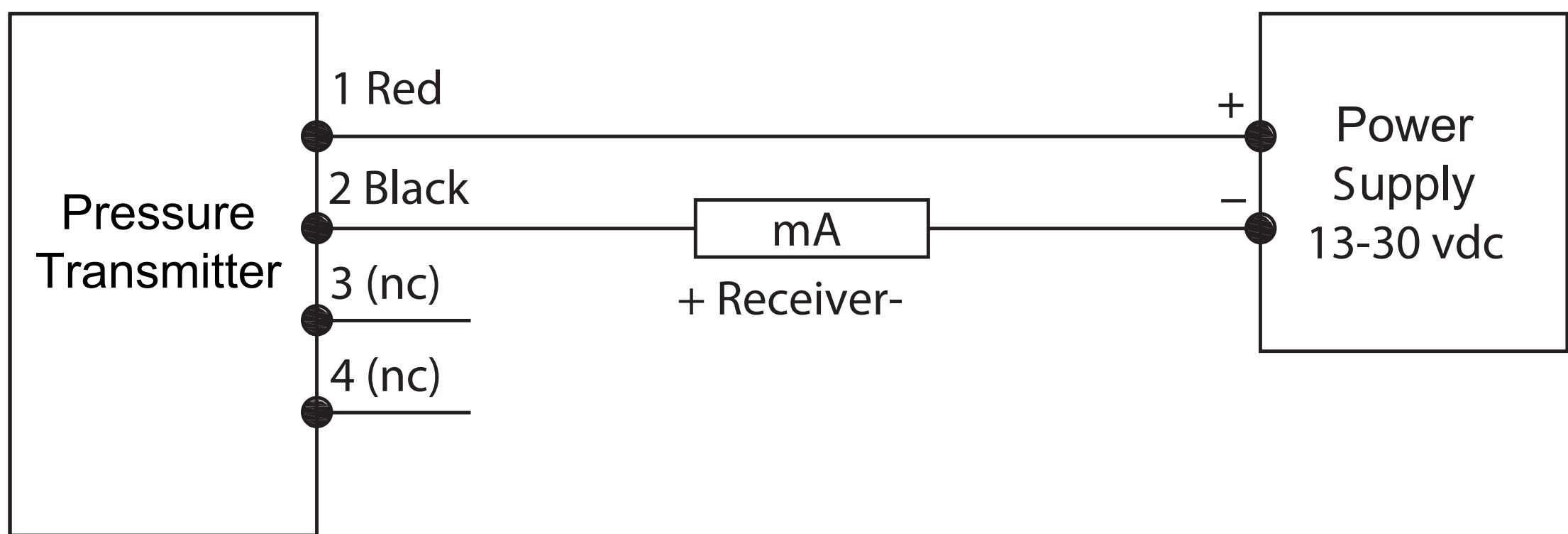
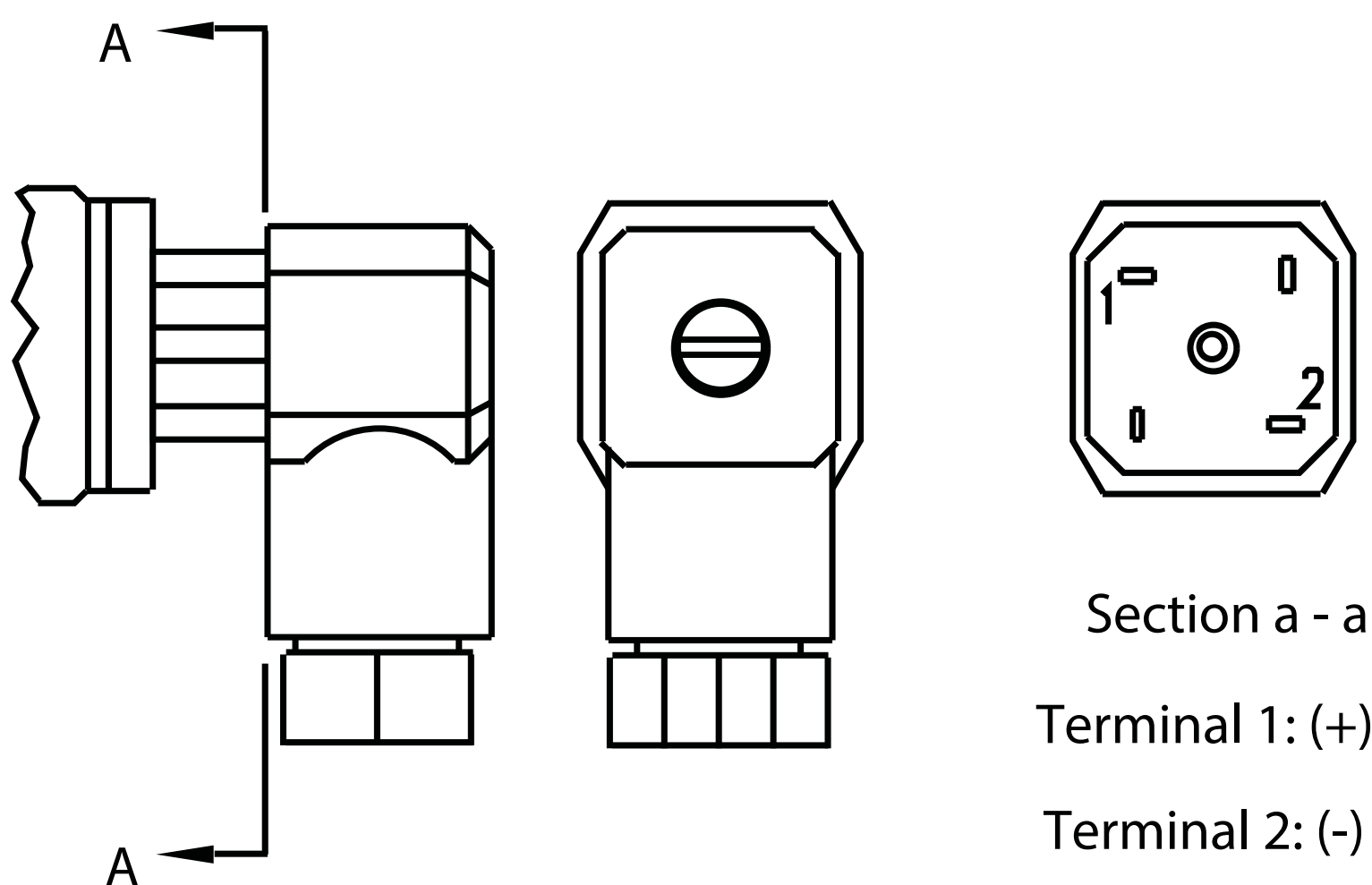


Fig. A: Current output connection





Ordering Code :

Example : PT01-0.1B-1-1

PT01 - XXXX



PRESSURE CODE	PRESSURE RANGE	MAXIMUM PRESSURE	OVER PRESSURE	ELETRICAL CONNECTION	PROCESS CONNECTION
0.1 B	0.1 Bar	0.2 Bar	1.0 Bar	1 DIN 43650	1 ¼" BSP M
005P	005 PSI	10 PSI	50 PSI		
015P	015 PSI	30 PSI	150 PSI		
030P	030 PSI	60 PSI	300 PSI		
050P	050 PSI	100 PSI	300 PSI		
100P	100 PSI	200 PSI	500 PSI		
150P	150 PSI	300 PSI	700 PSI		
200P	200 PSI	400 PSI	1000 PSI		
500P	500 PSI	1000 PSI	2500 PSI		
1000P	1000 PSI	2000 PSI	5000 PSI		
2000P	2000PSI	4000 PSI	5000 PSI		
3000P	3000 PSI	6000 PSI	7500 PSI		
5000P	5000 PSI	7500 PSI	10000 PSI		
8000P	8000 PSI	10000 PSI	12000 PSI		