

PT-307 Pressure Transmitter

Product Overview:

PT-307 pressure transmitter adopts 96% alumina sensor core, and converts the pressure of the measured medium into 4~20mA, 0~5VDC analog signal through high-reliability amplification circuit, precise digital temperature compensation and nonlinear correction technology. Because its structure can withstand great destructive pressure, it is extremely safe and is the first choice for ceramic pressure transmitters used in high-demand workplaces. It is widely used in automobiles, medicine, industrial automation, water pumps, air conditioners, air compressors and other fields.

Key Features:

- Compact and easy to install, reverse polarity protection, reliable performance, safe and convenient to use
- Ceramic sensor, cost-effective
- High sensitivity, high precision, high stability
- Warming up the entire temperature range. Good electrical performance and long-term stability
- One year warranty!

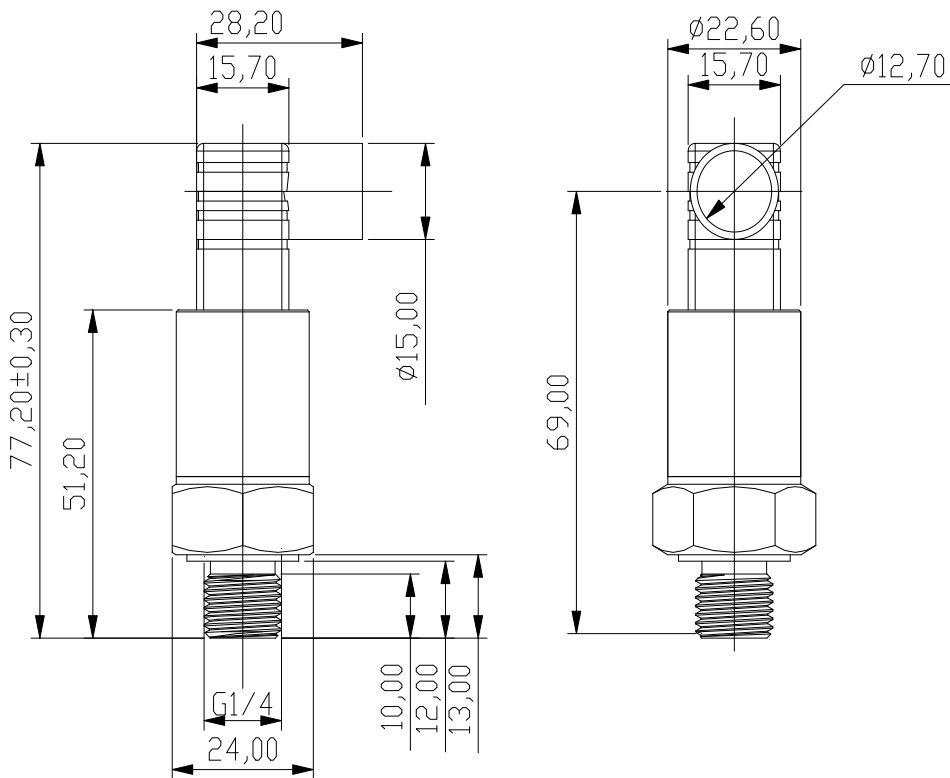
Technical Parameters:

| | | | |
|--------------------------------|--|-------------------|------------|
| Range | Gauge pressure 0~1bar...50bar | | |
| Safety overload pressure | 200%FS | | |
| Comprehensive accuracy | ±0.5% FS | | |
| Temperature compensation range | -40~85°C | | |
| Temperature Drift | ±0.03%/°C | | |
| Long-term stability | ±0.3%FS/year | | |
| Operating temperature | -40~85°C | | |
| Storage temperature | -40~125°C | | |
| Output signal | Absolute value 0-5V | Proportional 0-5V | 4-20mA |
| Supply voltage (V) | 6-36 or 3.0-5.5 | 3.0-5.5 | 11-36 |
| Power consumption (mA) | 2.5 (TYP) | 2.5 (TYP) | - |
| Load (Ω) | >10K | >10K | ≤50 (U-11) |
| Electrical Connections | Wire/Terminal | | |
| Protection level | IP65 | | |
| Process connection | NPT 1/8, G1/4, etc. can be customized | | |
| Material | 304 stainless steel, alumina, NBR (fluoro rubber, etc. are optional) | | |
| vibration | 10gRMS, (20~2000)Hz | | |
| Shock | 100g, 11ms | | |
| insulation | More than 100MΩ @250VDC | | |
| Startup time | 80ms | | |
| Response time | Less than 1ms (@ 90% FS) | | |

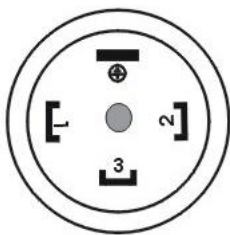


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| CE certification | EMC:IEC61326-1 Class B Electrostatic discharge immunity: IEC61000-4-2 Electromagnetic field immunity: IEC61000-4-3 EFT immunity: IEC61000-4-4 Surge immunity: IEC61000-4-5 |
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Dimensions (in mm):



Electrical connection: Hirschmann GDS307 connector



| plug | Wiring | Voltage/three-wire current output | Two-wire current output |
|------|--------|-----------------------------------|---------------------------|
| 1 | red | Power supply positive VCC | Power supply positive VCC |
| 2 | black | Power negative GND | Current output Iout |
| 3 | white | Signal output Vout/Iout | NC |
| 4 | NC | NC | NC |