

PT-511 Pressure Transmitter

Product Description:

PT-511 pressure transmitter adopts a 96% alumina ceramic sensor core. Through a highly reliable amplification circuit combined with precise digital temperature compensation and nonlinear correction technology, it converts the measured medium pressure into 4–20 mA or 0–5 VDC analog signals, with direct digital display via a digital tube. Its structure can withstand extremely high burst pressures, ensuring exceptional safety. As a result, it is the ideal choice for demanding applications and is widely used in automotive, food, pharmaceutical, industrial automation, water pumps, petroleum, chemical, pneumatic equipment, hydraulic systems, air conditioning, and air compressors.

Features:

- Compact and easy to install
- Cost-effective ceramic sensor
- Real-time pressure display for convenient and intuitive monitoring
- High sensitivity, accuracy, and stability
- Full temperature range compensation
- 1-year warranty

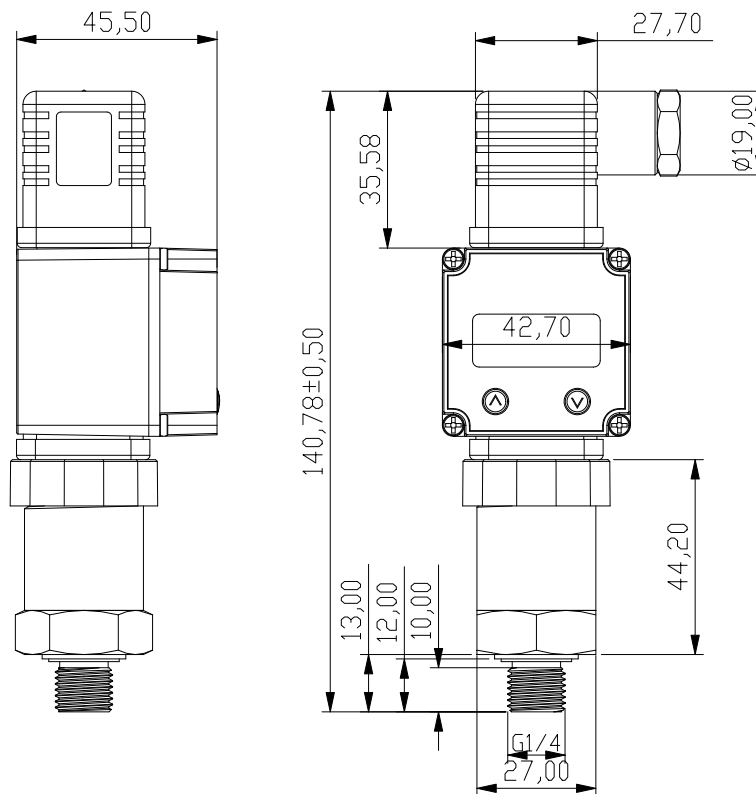
Technical Parameters:

Pressure range	Gauge 0~1bar~50bar		
Overload pressure	200%FS		
Accuracy	±0.5%FS		
Temperature compensation range	-40~85°C		
Temperature shift	±0.03%/°C		
Long-term stability	±0.3%FS/year		
Working temperature	-40~85°C		
Storage temperature	-40~125°C		
Output signal	Absolute 0-5V	Proportion 0-5V	4-20mA
Power supply DC	6-36V or 3.0-5.5V	3.0-5.5V	15-36V
Power dissipation	2.5 (TYP) mA	2.5 (TYP) mA	-
Load resistance	>10K Ω	>10K Ω	≤50 (U-11) Ω

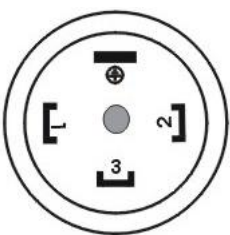


Electrical connection	leads/Hirschmann		
Ingress	IP65		
Process connection	NPT 1/8、G1/4 etc. customizable		
Material	304 stainless steel、alumina、NBR (FKM etc., optional)		
Vibration	10gRMS, (20~2000)Hz	Impact	100g, 11ms
Insulation	More than 100MΩ @250VDC		
Start time	80ms		
Response time	Less than 1ms (@ 90%FS)		
CE Approval	EMC: IEC61326-1 B type Electrostatic discharge immunity: IEC61000-4-2 Electromagnetic field immunity: IEC61000-4-3 EFT immunity: IEC61000-4-4 Surge immunity: IEC61000-4-5		

Dimensions (unit mm):



Electrical connections: Hirschmann plug



Plug	Cable	Vout/Three-wire Iout	Two-wire Iout	Two-wire with alarm
1	Red	Power +	Power+	Power+
2	Black	Power-	Iout	Alarm 2
3	White	Vout/Iout	NC	Alarm 1
4	NC	NC	NC	Iout