

CS-PT807



Applications

- General pressure measurement
- Machinery manufacturing
- Measurement and control technology
- Kerosene pressure measurement
- Nitrogen and helium pressure measurement

Description

PT807 pressure transmitter adopts sputtered film core, has 0.2~4.8VDC output signal, Y4-4ZJBM connector with 1.5m cable, and M18 × 1.5 pressure interface with inner screw sleeve, can be used for pressure measurement of nitrogen, helium, kerosene and other media. This series of pressure transmitters can be customized as different pressure interfaces, electrical interfaces and signal outputs.

Features

- Sputtering film pressure sensor
- High overload pressure and high burst pressure
- Fully welded structure, no O-ring, no risk of leakage
- Measuring range: 0~2MPa...40MPa
- Accuracy: 0.5 %BFSL
- Electrical connection: Y4-4ZJBM (with 1.5m cable)
- Pressure connection: M18 x 1.5 Female (with threaded sleeve)
- Over voltage and reverse voltage protection



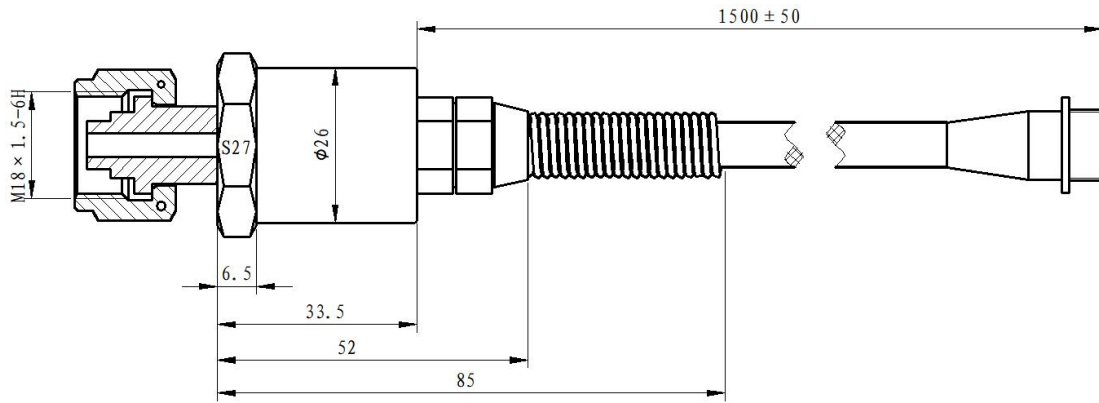
Performance Specifications

Temperature 25℃, power 15VDC, RH 45%~75%, Atmospheric pressure 86~106KPa.

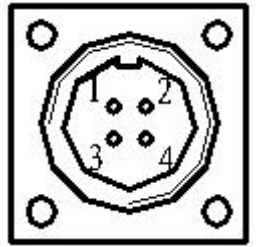
Pressure Range	0~2MPa	0~10MPa、0~35MPa、0~40MPa
Overload Pressure	150%F.S	120%F.S
Burst Pressure	200%F.S	150%F.S
Output Signal	(0.2±0.1)V~(4.8±0.1)VDC	
Power supply (U+)	15V±1.5VDC	
Current without Load	≤ 10mA	
Output Resistance	≤ 1KΩ	
Over Voltage	20VDC	
Reverse Voltage	-20VDC	
Accuracy at Room	±0.5% F.S.	
Temperature Error	±1.0%F.S(-40℃~60℃)	
Working Temperature	-40℃~60℃	
Storage Temperature	-40℃~85℃	
Ripple Voltage	≤10mVrms	
Settling Time	(10%~90%) ≤10ms	
Clipping Voltage	Upper: ≤6.5V; Lower: ≥0V	
Insulation Resistance	≥ 100MΩ@50VDC	
Long-term Stability	±0.5%F.S / year	
Leak Rate	≤1.0×10 ⁷ Pa•m ³ /s	
Pressure Connection	M18 x 1.5 Female (with threaded sleeve)	
Electrical Connection	Y4-4ZJBM (with 1.5m cable)	
Vibration Resistance	10g, 5~2000Hz	
Shock Resistance	20g, 11ms half sine	
Ingress Protection	≥ IP65	
Housing Material	Default: 316L stainless steel	
Medium Compatibility	N ₂ , He, kerosene (medium resistance for 6 months)	
Mass	≤200g	



Structure and Dimension (mm)



Wiring Definition

	Pin	Definition
	1	Power Supply + (U+)
	2	Voltage Output (Vo)
	3	Power Supply – (GND)
	4	Shield (PE)



Notes

- a. The pressure transmitter must be used in the medium that is non-corrosive to the seal material and the housing material.
- b. In case the pressure guiding hole of the transmitter is blocked, it is forbidden to use sharp tools to clear it. Instead, one should remove the transmitter from the system, immerse the pressure guiding hole part in the liquid which can dissolve the blockage, and then the blockage will flow out easily.
- c. It's prohibited to open the transmitter by users for calibration or repair.
- d. Please contact us if you're not sure whether the transmitter is suitable for the medium to be measured.
- e. The transmitter should be installed in a location that is not easily bumped or stepped on.
- f. Exceeding of the transmitter overload pressure may cause permanent damage.
- g. Where lightning may occur, customers should consider lightning protection measures.

Disposal methods of hazardous wastes such as waste circuit boards and their components after the end of product life

After the end of the product life, each part shall be distinguished according to the "National hazardous waste list" to determine whether it is hazardous waste. Among them, the waste lithium battery not disassembled is not hazardous waste, and the waste circuit board (including components, chips, plug-ins, pins, etc. attached to the waste circuit board) belongs to hazardous waste.

The part that is not hazardous waste shall be treated as general industrial solid waste, and the lithium battery shall be handed over to the nearby renewable resource recovery department or sent to the product manufacturer for recycling.

Hazardous wastes must be handed over to legally qualified departments for disposal in accordance with national regulations, and shall not be dumped or stacked without authorization. If it is really necessary to store temporarily, protective measures meeting the national environmental protection standards must be taken, and the storage period shall not exceed one year. At the same time, the time and place of temporary storage and the protective measures taken shall be reported to the competent environmental protection department. Hazardous waste transfer activities can be arranged according to the actual production situation. The system shall be strictly implemented in the transfer process

Statement

The Company reserves the right to modify the specifications and contents of this instruction. No further notice will be given if any changes are made. Due to product updates, the individual details of this document may not match the product. Please refer to the actual product. The right to interpret this document belongs to the Company.

