



High Temperature Pressure Transmitter datasheet

HDP501

Brief description

HDP501 series High Temperature Pressure Transmitter adopts imported thermo stability sensing element, make the transmitter work stability under 300°C. And it welds with cool lasing technology, there are cooling ribs between the pressure sensor chips and amplifier electrical circuit, it avoids the heat conduction efficiently.

pressure sensitive core adopts high performance silicon piezoresistive pressure filling core. The internal ASIC converts the sensor millivolt signal into standard voltage, current or frequency signal, which can be directly connected with computer interface card, control instrument, intelligent instrument or PLC. Current output mode can be used for distance transmission. It has small volume, light weight, all stainless steel sealing structure and can work in corrosive environment. The product is easy to install and has high anti-vibration and anti-impact performance. It is widely used in process control, aviation, aerospace, automobile, medical equipment, HVAC and other fields.

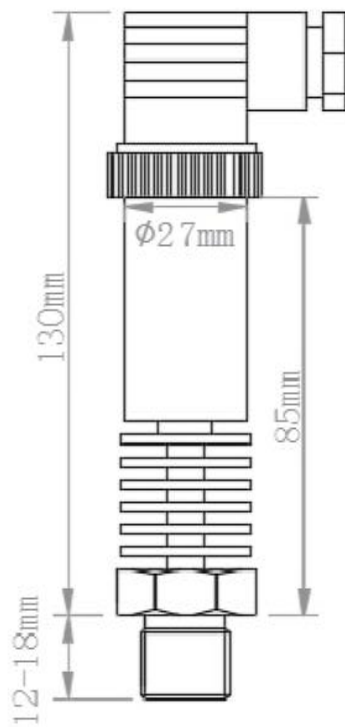
Product advantage

- 304 or 316L stainless steel isolation diaphragm structure
- Direct measurement of liquids and gases within 300°C
- Temperature compensated over wide range
- High Precision, Isolation circuit board
- Microamplifier, output of voltage, current and RS485 signals
- Strong anti-interference and long-term stability
- Diversification of shape and structure
- Guarantee period: 18 months

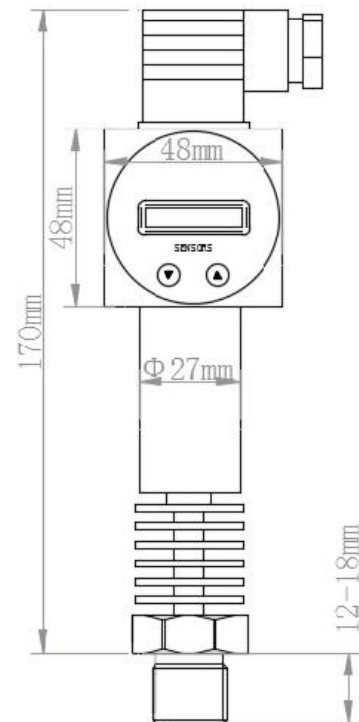
Connection type

Default 1 meter lead, lengthen please contact customer service

High Temperature type
(standard configuration)



High temperature digital display Type
(standard configuration)



Mainly technical parameters

Model	HDP501
Power supply	24VDC
Output single	4~20mA、1~5V、0~10V、RS485
Measuring range	-0.1...0...60Mpa
Compensation temperature	-10~70℃
Medium temperature	-40~300℃
Environment temperature	-40~85℃
Measuring media	Gaseous、Liquid、Water
Pressure type	Gauge pressure、Absolute pressure
Accuracy	0.1%F.S、0.25%F.S、0.5%F.S (standard)
Zero tempe drift	±0.03%F.S/℃
Sensitivity temperature drift	±0.03%F.S/℃
Overload	200%F.S
Long-term stability	≤0.2%F.S/year
Inherent frequency	5kHz~650kHz
Protection grade	IP65

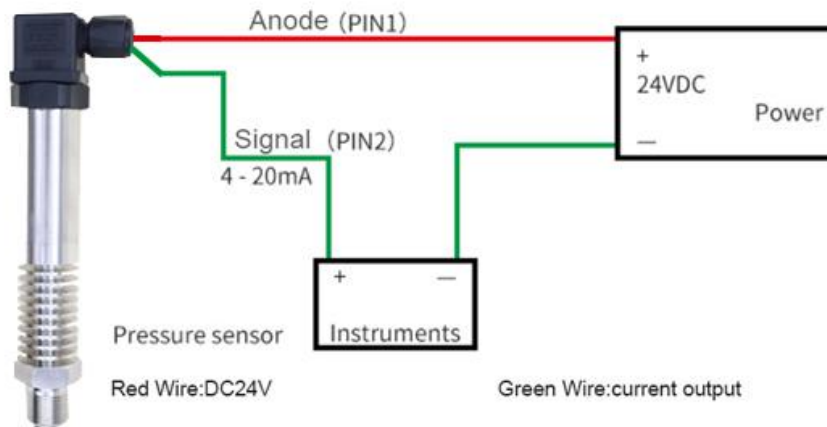
Selection Table

Product Series							
HDP501							
Pressure Range							
Selection from the range attached list							
Pressure Type							
A:Absolute pressure、G:Gauge pressure							
Accuracy Level							
E1:0.1%F.S、 E2:0.25%F.S、 E3:0.5%F.S (standard)							
Display Form							
M0: No display、 M1: Digital display 、 M2: LCD display							
Installation mode							
A1:M20*1.5(thread)、 A2:1/2 NPT、 A3:G 1/2、 A4:Others							
Connection type							
N1:Hessman Connector type、 N2:Cable Connector type							
Power Supply Mode							
D1:12-36VDC、 D2:3V-5VDC							
Signal Output							
F1 : 4~20mA (2-wire) 、 F2 : 0-5V (3-wire)							
F3 : 0-10V (3-wire) 、 F4 : RS485 (4-wire)							
F5 : Others							
HDP501 -A E1 M0 A1 N1 D1 F1							
Eg: HDP501-Absolute pressure-E1-M0-A1-N1-D1-F1							

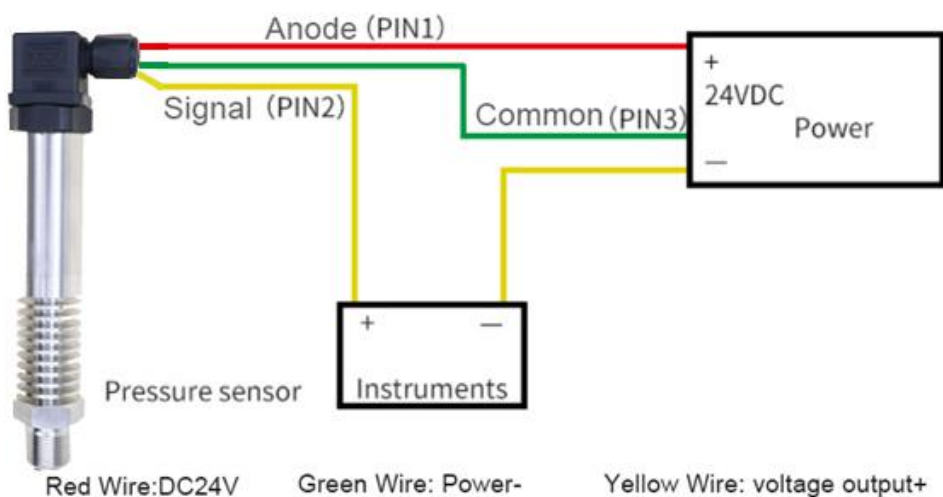
Selection of the range attached list					
Code	Range	Code	Range	Code	Range
02	0-10kpa	06	0-10Mpa	10	-100-0kpa
03	0-100kpa	07	0-20Mpa	11	-100-1000kpa
04	0-1Mpa	08	0-40Mpa	12	Others

Wiring diagram

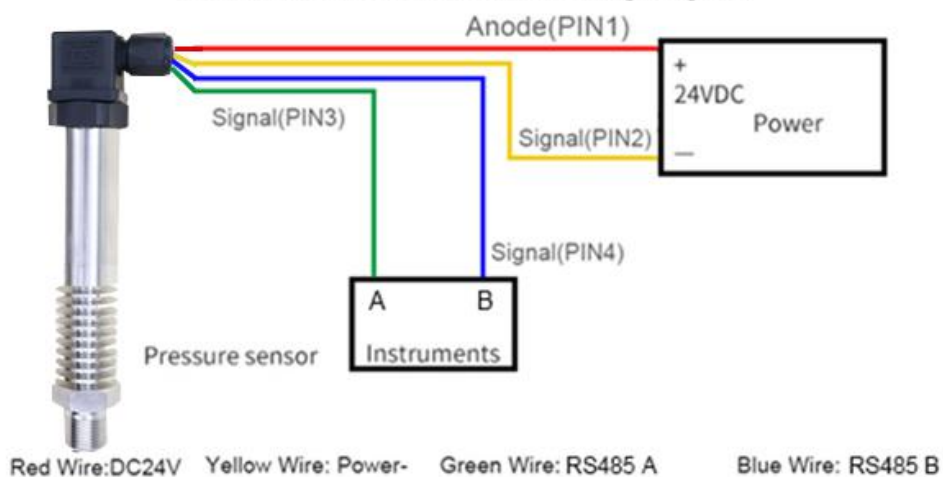
2-wire current output wiring diagram



3-wire voltage output wiring diagram



4-wire RS485 communication wiring diagram



· Pressure transmitter



· Differential Pressure transmitter



· Pressure gauge



Huaibei Huadian Automation Technology Co., Ltd.

Add : 265 Suixi Road, Huaibei City, Anhui Province , China

Tel : +86 19956512395

E-mail : joy@huadianauto.com